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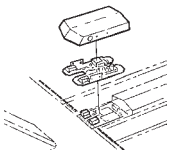

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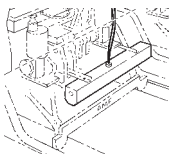

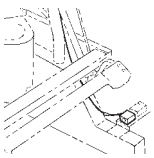

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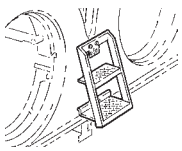

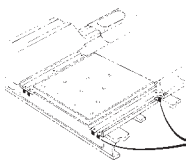

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See Back Cover for Ball Conditioner Products

IMPORTANT NOTICE

All Pricing included in this catalog are the suggested Retail Prices as effective from August 1, 2012 and are applicable "Only in the USA"

All Pricing subject to change without notice.

Back End Controller

For AMF 82-70 MP Chassis, 5-Board and Converted Chassis

NOW AVAILABLE

UNIQUE ZOT PART

#400253 .....$189.70 (2-lane unit)

Prevents Pin Waterfall Effect: The ZOT Unit will turn off the back-end motor (distributor): when a pin-jam occurs in any position of the shuttle.

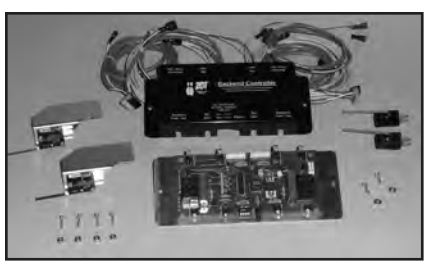
Mechanics Alert Indicator: A LED signals when the ZOT unit stops the distributor and back-end motor. The back-end motor will be turned off when (1) a pin jam occurs (e.g., when more than one pin is placed in any position on the shuttle), (2) when the Pinspotter has been idle for more than a preset number of minutes.

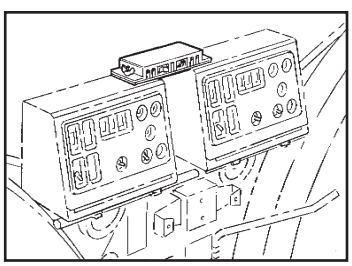
Prevents Damage: The ZOT product reduces damage to Pinspotter parts (e.g., distributor drive shaft parts) and to pins: by switching off theback-end motor.

Saves Wear & Tear and Reduces Power Consumption: An adjustable Time-Out can be set on a DIP Switch to stop the back-end motor: in a range of 3 to 6 minutes.

Self Restart: When the back-end motor has timed out (turned off) it will turn back on automatically immediately when a ball contacts the pit cushion.

Manual Restart: When the back-end motor has been turned off by a pin-jam, the distributor will turn on automatically when the pins have been cleared from the shuttle.





Mask Light Bulb Replacement

"Replace incandescent bulbs with LED's"

"Improved"
Increased Brightness Level

#400265 Red LED (12-Volts) for centers with AMF Pinspotters: **$14.45 each**

#400261 Red LED (24-Volts) for centers with Brunswick Pinsetters: **$14.45 each**

ZOT has made improvements to the LED replacements for incandescent light bulbs on Mask units. The new LED's are RED (when lit), which yields a "greater degree of brightness" in typical bowling center lighting.

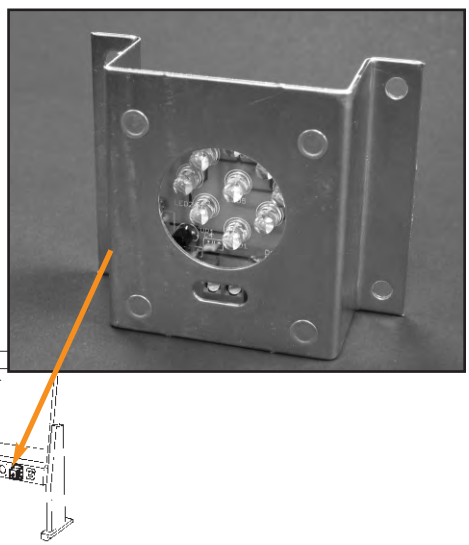
The Effective Life of the product is 100 times longer than the bulbs they replace. That's a life expectancy of 100,000 hours of run time.

Power Saving: LED's use less than 1/10th of the power used with incandescent bulbs.

They are easy to install: Simply push and turn, just like the old bulb.

Mask Light Conversion Kit

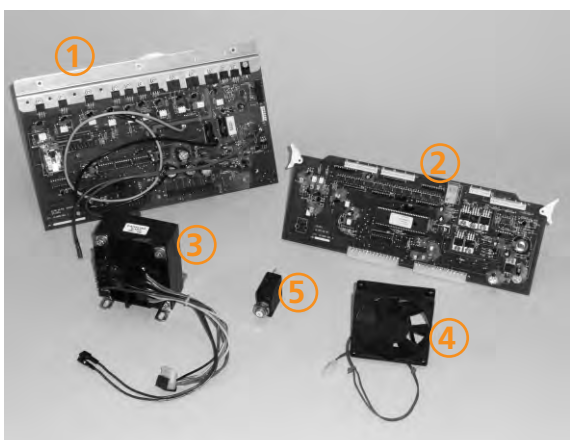
#400262 .....$24.95



- **Stop Constant Replacement:** of older technology incandescent lamps. #90, #94, #624, #1692 and #68 lamps are rated to last 750 hours. LED Technology will run for 100-thousand hours — that's a life expectancy that's more than 100-times longer
- **Discard Aging and Worn Sockets:** remove problem sockets, obsolete worn contacts and aging wires.
- **Simple Mounting:** easy drill & screw LED & Lens system to the front of the mask unit.
- **Saves Power:** The LED Light uses less than 1/10th of the power (current) than the old #90 incandescent lamp.
- **Optional Wire Replacement:** easy screw /wire connection at the LED PC Board enables you to connect with a 6" jump-wire, or you can replace the complete run using your own wire.

NEW Replacement Parts for CTI/ZOT Ultra Chassis

For all 2-Board Chassis



1. **Driver Board** #431070 .....$395.83
2. **MPU Board** #431069 .....$237.27
3. **Transformer** 115v #400231 .....$125.12
4. **Fan Assembly** #400249 .....$32.08
5. **Resettable Breakers**
   - #220040 12-AMP.....$15.53
   - #220039 10-AMP.....$15.53
   - #220016 2-AMP.....$16.01
   - #220038 1-AMP.....$16.01

Replacement Fuses for Ultra 98 & Ultra 98 Plus

- #220022 15-AMP.....$2.52
- #220023 1.5-AMP.....$2.41
- #220009 10-AMP.....$2.52

Call ZOT at 1-800-525-8116 for more details

5 to 1 Board Conversion

#827001.....**$369.80**

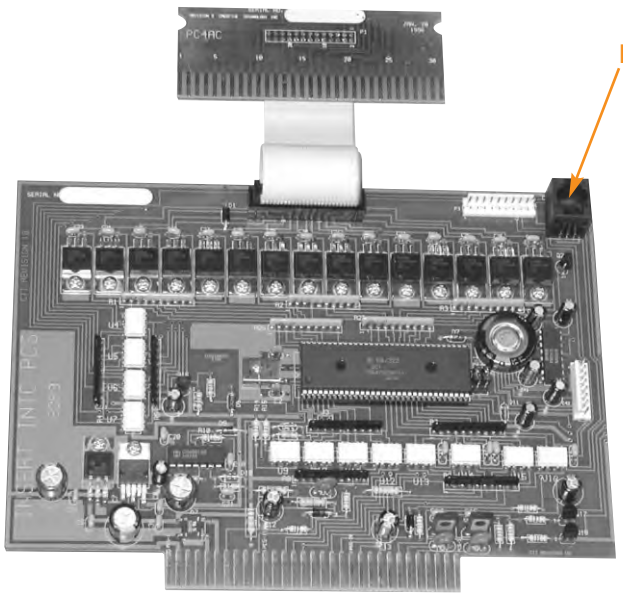
with Pindication Diagnostics (includes **#827006**)

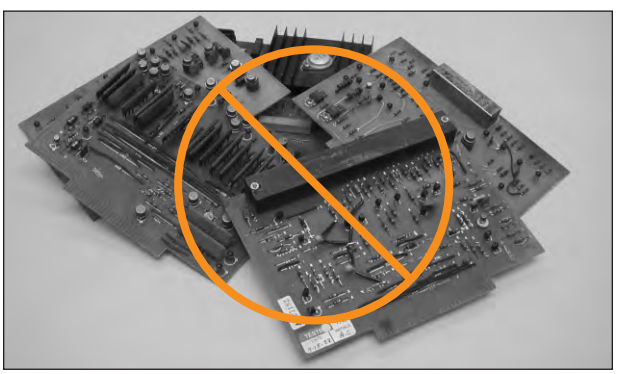
Enhanced single board conversion for Original AMF 5-board Chassis

Same features as the AMF XOP/98-70 board

"Lowest Price in the Industry"

Unlike some other manufacturers, ZOT includes a scoring interface in its single PC Board 5-to-1 Board Conversion. Other manufacturers' products require two boards (at a higher cost) to accomplish the same thing.





Features and Benefits

Microprocessor Efficient: State-of-the-Art Technology simplifies the circuit

Reduced Power Consumption: Modern PC-Board components require less power

Reset/Program Zero: Enables zeroing the memory of the chassis

Scoring Interface: Compatible with all Major brands of scoring

Short Cycle Capable: Allows for some Automatic Scoring units to communicate on a strike that the table does not go down to feel for pins

Pindication Capable: Has the circuitry necessary to drive the pin-lights for the masking units that have a pindication feature

Ease of Installation: All connections made with quick disconnect terminals

Option Jumper's

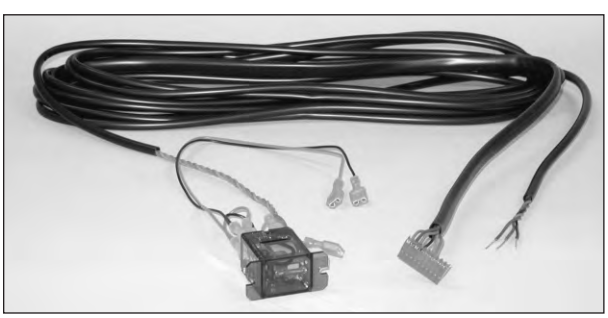
Instruct: Enables automatic cycle out of Instruct-O-Mat when switching to first ball

Foul: Enables disabling of the foul communication to the machine: without disabling the foul light at the approach

Note:
Master Controller interface compatible. (See page 7)

Now Includes #827006 Cable

Optional Add-on



Short Run Cycle - Communications Cable

#827006.....**$49.60**

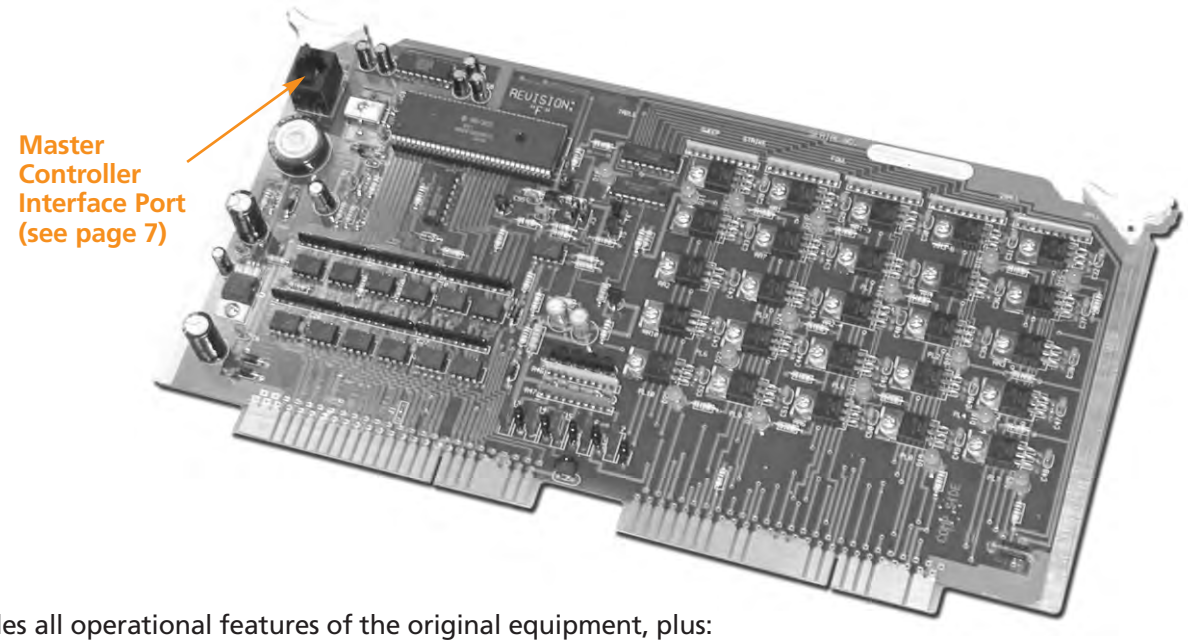
Adding the CTI by ZOT Sweep Reverse Communications Cable to the 5 to 1 board Conversion will provide all AMF & Brunswick V ector automatic scoring features, including: Short Strike Cycle, Short Cycle 7 to 10-pin Pick, or Short Cycle Miss (Gutter ball) and automatic sweep reverse on offspot.

Compatible with all brands of automatic scoring, including Brunswick Vector, but not including FrameWorx, AS90, AS80, ASK and all other Brunswick systems.

MP PC Control Board

#827002 .....**$443.60**
with Pindication Diagnostics

Enhanced replacement for AMF 98-50 single board
Same features as AMF 98-60 board



Provides all operational features of the original equipment, plus:

Features and Benefits

Microprocessor Efficient: State-of-the-Art Technology simplifies the circuit

Reduced Power Consumption: Modern PC-Board components require less power

Reset/Program Zero: Enables zeroing the memory of the chassis. Also serves as a manual intervention (a safety feature for mechanics) if the Chassis is shut down. This button "Must be Depressed" to restart the machine

Scoring Interface: Compatible with all Major brands of scoring

Short Cycle Capable: Allows for some Automatic Scoring units to communicate on a strike that the table does not go down to feel for pins

Pindication Capable: Has the circuitry necessary to drive the pin-lights for masking units that have this feature

Ease of Installation: All connections made with quick disconnect terminals

Diagnostic LED's

1st – Ball – 2nd: Indicates whether the machine is on First or Second ball

Foul: Lights when a foul signal has been generated

Sweep: Lights when button is depressed while operating sweep

Table: Lights when button is depressed while operating table

10 Pin Lights: Light when re-spot cells switches are activated

Strike: Lights when a bowler knocks down all pins on first ball

Option Jumper's

Instruct: Enables the Mechanic to override the front desk control switches. The machine cycles irrespective of whether the switches are in the Instruct-O-Mat or Bowl positions

Back-End: Enables the mechanic to select whether the back-end motor shuts of f if there's no bowling activity for (3) minutes: or run continuously as long as the machine is turned on

Foul: Enables disabling of the foul communication to the machine: without disabling the foul light at the approach

Master Controller interface compatible *(See page 7)*

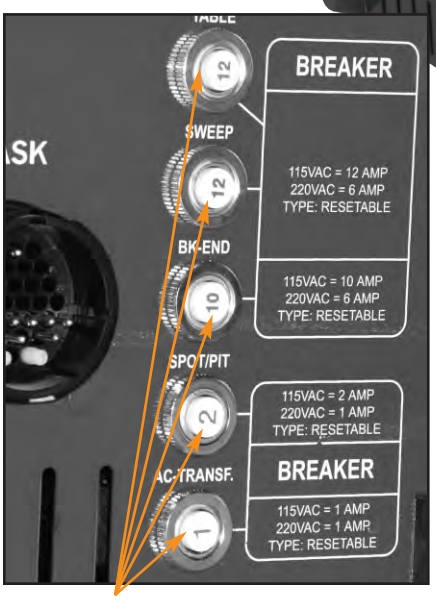
"New From ZOT!"

Ultra Pro Pinspotter Controller Chassis & Control-All

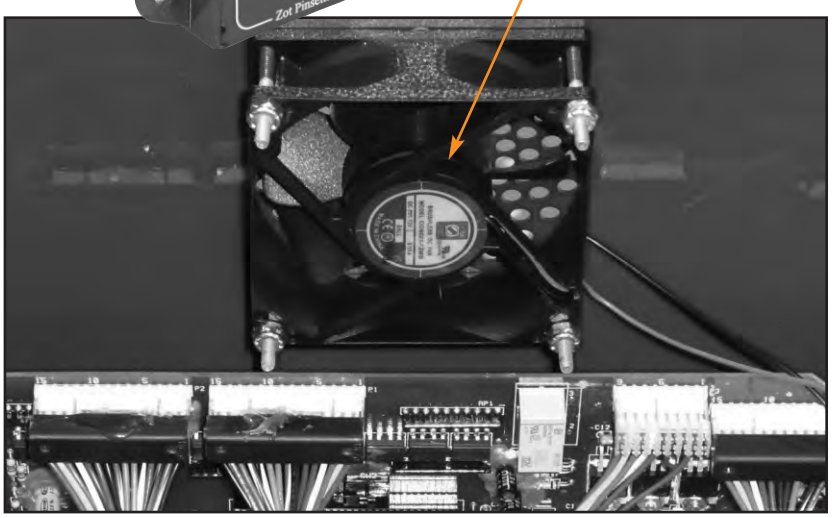
For AMF 82-70 Pinspotters

#400273 (115V60Hz) **$1399.50**
Replaces AMF 5-Board Chassis & Converted 5-Board Chassis
#400274 (115V60Hz) **$1348.50**
Replaces AMF-MP Chassis
A Solid-State replacement chassis with controls that mount separately or remotely.

With All New "OSHA Friendly" Safety Features



Resettable Breakers



#400299 (230V50Hz) Replaces AMF 5-Board Chassis & Converted 5-Board Chassis
#400300 (230V50Hz) Replaces AMF-MP Chassis

"The most Reliable and Safest solid-state chassis for an AMF 82-70 ever built."

Safer Control Location: OSHA is recommending that the Pinspotters' power is locked out when the mechanic is on the machine. ZOT has addressed this issue with its new chassis, by mounting the controls on the rear of the machine.

Safer Mask Switch: the Mask Switch has been reassigned as a "Kill" Switch (making the Pinspotter stop immediately). The Chassis then requires a Reset (either from the rear of the Pinspotter , or from the Mask, using the additional Mask Switch supplied with the ZOT Kit.

Ultra Pro Pinspotter Controller Chassis & Control-All

For AMF 82-70 Pinspotters

"Off-Chassis" Push Button Function Controls:

(All controls are accessible from the pinspotter aisle.)

Sweep: Enables running the sweep from the Controller.

S/R (Sweep Reverse): Enables running the Sweep Reverse from the Controller.

Table: Enables running the Table from the Controller.

Reset/Program Zero: Enables zeroing the memory of the Chassis: Also serves as a manual intervention (a safety feature for mechanics) if the Chassis is shut down. This button "Must be Depressed" to restart machine.

Cycle: Enables cycling the machine from the Controller.

Push Button Function: Controls 1st & 2nd ball togo; enables switching between 1st Ball position and & 2nd Ball.

Option Switch's

Service: Enables the Mechanic to turn the machine on from the Controller: overriding the front desk control switches.

Instruct: Enables the Mechanic to override the front desk switches. The machine cycles irrespective of whether the switches are in the Instruct-O-Mat or Bowl positions.

Off Spot: Enables the mechanic to select whether the machine will perform an automatic sweep reverse in the case of an off spot.

Control-All

Ultra Pro Kit

Foul: Enables disabling of the foul communication to the machine: without disabling the foul light at the approach.

Back-End: Enables the mechanic to select whether the back-end motor shuts off if there's no bowling activity for five (5) minutes: or run continuously as long as machine turned on.

Power & Diagnostic LED's LED's indicate the following when illuminated:

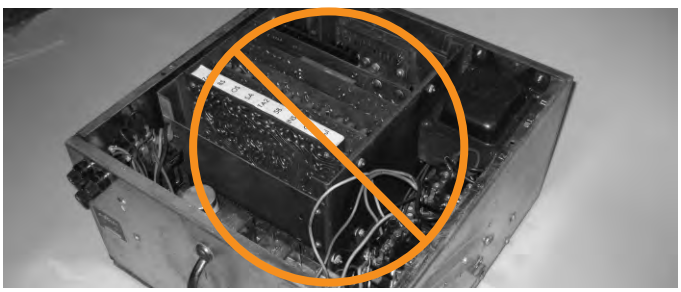
a. **Power:** Indicates when the chassis has power.
b. **Instruct-O-Mat:** Is switched on at the Front Desk.
c. **Continuous Cycle:** Machine is in Continuous Cycle Mode.
d. **Scoring Communication:** Pinspotter is communicating with Scoring.
e. **Gripper Protect:** Gripper Protection Switch is Grounded.
f. **Bin Switch:** Distributor has filled the last position on the Shuttle.
g. **Off Spot:** Pinspotter has been stopped by an Off-Spot Pin.
h. **Pin Lights:** Indicates that individual Gripper Switches have been activated (Not scoring related).
i. **SA:** Sweep is at 270° (second guard position).
j. **SB:** Sweep is at ZERO (first guard position).
k **TA1:** Table is moving from ZERO to Respot position.
l. **TA2:** Table is moving from Respot back to ZERO position.

Resettable Breakers (On the Chassis)

Table Motor: Protects Chassis if motor overloads
Sweep Motor: Protects Chassis if motor overloads
Back-End Motor: Protects Chassis if motor overloads
Spot Solenoid & Pit Light: Protects Chassis if a short occurs
AC Transformer: Protects Chassis if a short occurs
Power Circuit Breaker: Shuts down power to the machine

Note:

An ELCO Mask Adapter Cable is required when replacing an original 5-board chassis with an Ultra Pro.



Ultra 99

#827029 (230/50Hz) Front Facing unit.....**$1666.79**

Direct replacement for VANTECH VPS 2000

Also Available:

99 Master Controller

#827030 .....**$388.85**

Direct replacement for Vantech Rear Control Center

Scoring/Mask Connectors

Replace Worn & Unreliable ELCO Connectors with more cost effective AMP Connectors as found on MP Chassis

Improve Chassis reliability by restoring Scoring and Mask connection communication to like-new condition

Easy to Re-pin: It's easier to Re-pin your chassis than you think … easy to follow instructions are included.

Chassis Receptacle

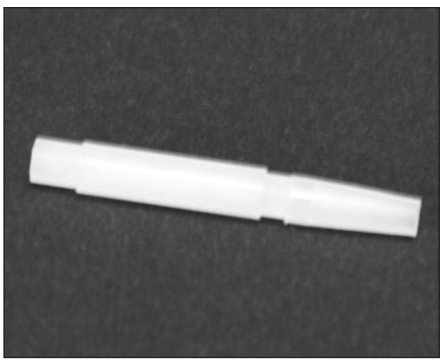
#230197.....$6.64

(37 connectors) C23 Mask & APS (Scoring)

Keying Pin

#230122.....$0.52

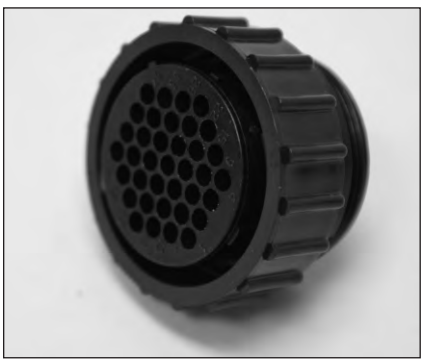
for C23 Mask & APS (Scoring)



Cable Plug

#230119.....$6.95

(37 connectors) C23 Mask & APS (Scoring)



Cable Clamp

#230120.....$6.59

(37 connectors) C23 Mask & APS (Scoring)

ELCO Mask Adaptor Cable Assembly

 # 827007 .....$96.35

Adaptor required for Quick Change from 5-Board Chassis to a New ZOT Solid State Chassis

This adaptor cable assembly is designed to convert (and is required to change) the original ELCO connection from a 5-Board Chassis to a C-23 Plug for an Ultra 98/Ultra Air and/or Ultra 98 Plus/Ultra Air Plus application. This applies irregardless if whether the original 5-Board Chassis has been converted. Another alternative is to order # 827M23 or # 827C23

Conversion Kits

#827C23 .....$32.08

C23 Plug Connector Kit

for Mask & APS (scoring)

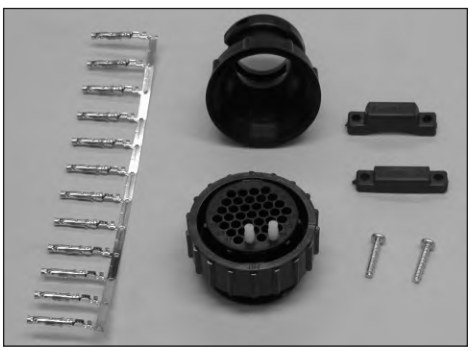
Used to convert existing cables to the C23 connector matching the connection on an Ultra98/Ultra Air and/or Ultra 98 Plus/Ultra Air Plus.

#827C17 .....$30.53

C17 Plug Connector Kit

For converting existing cables to the C17 Connector matching the connection on an Ultra 98 Plus or Ultra Air Plus

Note: *An AMP Crimping Tool may be required for Proper installation of these two kits.*



Cable Assemblies

#827M23 .....$42.31

Cable Assembly – Mask Unit

Connector Kit to communicate signals from the Mask Unit to the Pinspotter Chassis

#827S23 .....$40.60

Cable Assembly – Scoring

To communicate signals from Automatic Scoring to the Pinspotter Chassis

#827P17 .....$37.28

Cable Assembly – Ultra 98 Plus/Ultra Air Plus Accessory

Only interfaces with an Ultra 98 Plus/Ultra Air Plus Chassis to switch auxiliary features on and off: e.g. bumper systems and service lights.

Connectors

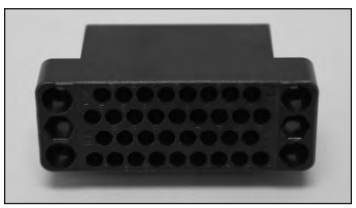
Note: *Connection Maintenance is essential — up to 50% of all electronic pinspotter malfunctions are connector related*

Gold Plated Connections for a Superior Connection

For better performance, use Gold in place of silver plated Pins and Sockets

Gold Socket .062 (female)
#230121.....$0.64
for Single Wire crimp
#230143.....$0.64
for Double Wire crimp or single 14 GA.

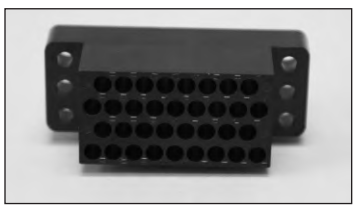
Gold Pin .062 (male)
#230141.....$0.63
for Single Wire crimp
#230142.....$0.63
for Double Wire crimp or single 14 GA.

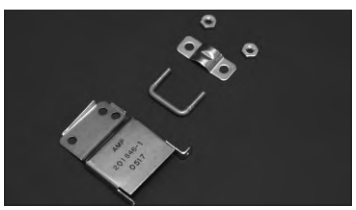


Chassis Receptacle
C1 Block (34 Connectors)
#230144.....$11.73

Cable Plug
C1 Block (34 Connectors)
#230249.....$11.73

Replace cracked or broken blocks that no longer hold pins securely

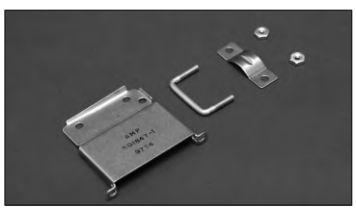


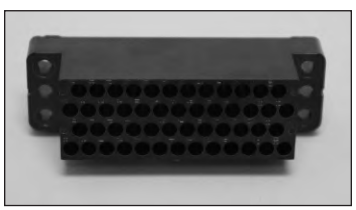


Strain Relief
C1 Clamp
#230250.....$25.39

Strain Relief
C2A Clamp
#230252.....$24.74

Secure Cables to prevent wires from fraying

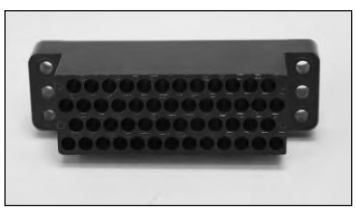




Chassis Receptacle
C2A Block (50 Connectors)
#230145.....$24.05

Cable Plug
C2A Block (50 Connectors)
#230251 .....$24.05

If you have pins or sockets that are pushed back, or blocks that are broken, replace them greater reliability

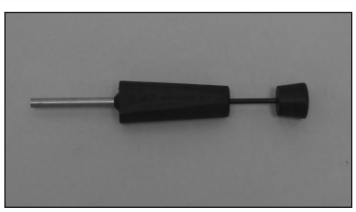


Guide Socket (female)
for C1 & C2A
#230195.....$5.30

Guide Pin (male)
for C1 & C2A
#230194.....$5.14

Locking Spring Clamp
for C1 & C2A
#230248.....$5.33

Extract Tool
Easy removal tool for all .062 DIA sockets & pins
#860018.....$26.24



Master Controller for AMF 82-70 Pinspotters

#827005 Controls two AMF 82-70 Pinspotters $355.64

Features and Benefits:

The Master Controller includes 26 informational and diagnostic LED Indicators for each lane.

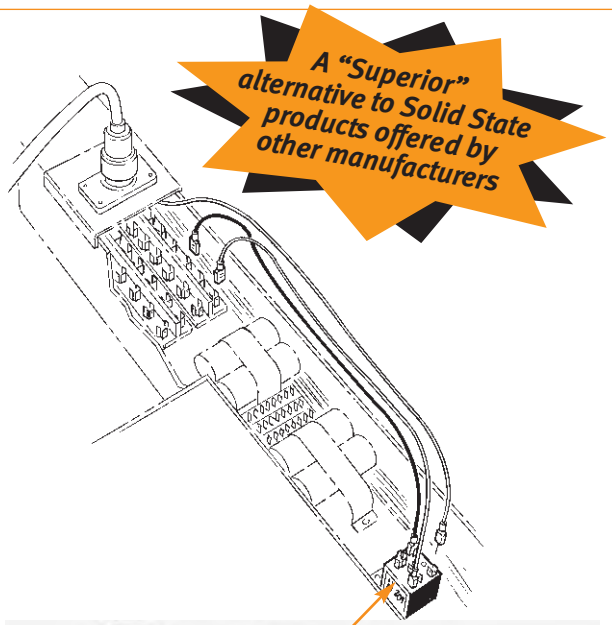
Pinspotter Control Buttons: Sweep - S/R Sweep Reverse –Table - Reset/Program Zero - 1st – Ball – Second – Cycle - Diagnostic LED's

Option Switches: Service – Instruct – Off-Spot – Foul – Back-End

Note: *Requires CTI by ZOT MP PC Board, 5 to 1 Board Conversion or any CTI Ultra 98 or Ultra Air Chassis to operate.*

Call ZOT at 1-800-525-8116 for more details

Electronic Motor Start Assembly



For AMF 82-70 Pinspotter Motors

#300058 .....**$36.90**

ZOT's Electronic Motor Start Assembly is a direct replacement for centrifugal motor start switches and various brands and models of Solid State motor starters.

Check these features:

Retains the same dynamic breaking circuit as the centrifugal start mechanism it's replacing.

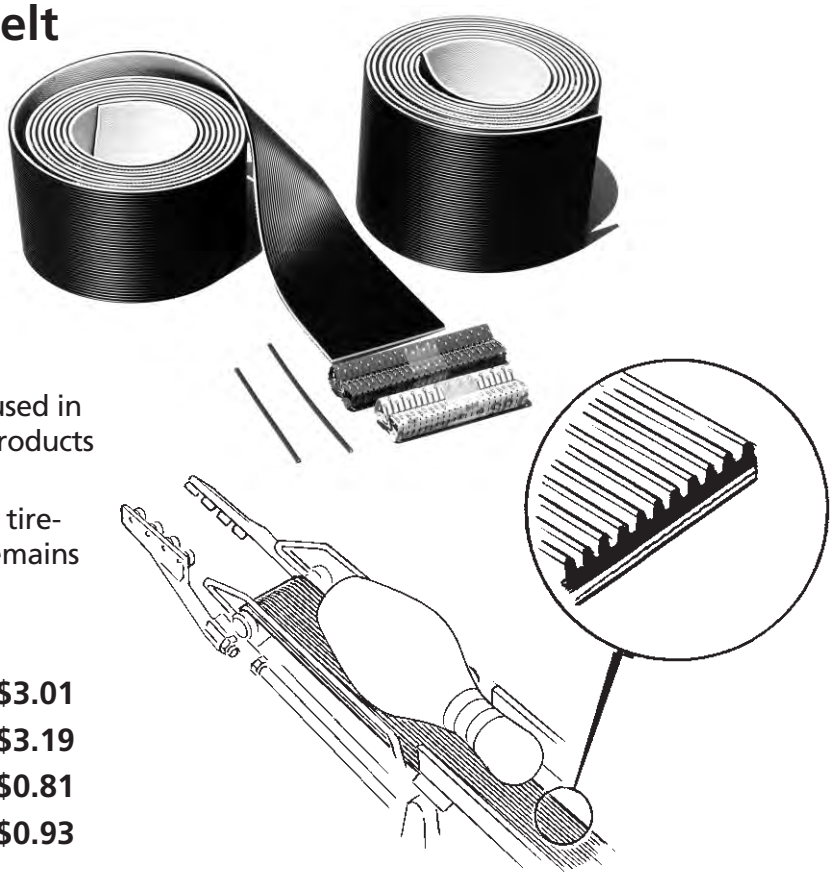
Reduces motor coasting or creep associated with OEM and various brands of Solid State motor starters

Durable: the ZOT Electronic Motor Start Assembly has a far greater life expectancy than Solid State alternatives.

Senses changes in Voltage: The ZOT product senses changes in voltage in the motor start winding, and disconnects the capacitors at the correct voltage, with "no" fine tuning or intricate adjustments required.

Easy to Install: The assembly mounts in the existing wire channel and uses simple disconnects, with no need to remove the centrifugal mechanism it's replacing.

Gorilla Grip Distributor Belt



For 82-70 & 82-90 Pinspotters

#800130 (124" Long).....**$38.40**

For 82-30 Pinspotters

#800133 (165" Long).....**$58.80**

(Above part numbers include Belt Lace and Pin)

The best pin grip in the industry: proven by extensive testing in bowling centers

Fewer pin jams: The belt is designed and used in the catering industry to move light food products up an incline.

Maintains pin grip: Oil and dirt settles in a tire-like tread to ensure the apex of the belt remains clean and oil free.

Replacement Parts

#800131 2 ¾" Belt lace for 82-70/90.....**$3.01**

#800134 3 ½" Belt lace for 82-30 .....**$3.19**

#800132 2 ¾" Belt Pin for 82-70/90 .....**$0.81**

#800135 3 ½" Belt Pin for 82-30 .....**$0.93**

CXL Dual Lane Controller Chassis

#829001 (115V/60Hz) **$2279.00**
#829002 (230V/50Hz) **$2279.00**

An enhanced direct replacement for AMF 82-90XL & 8800 Gold Dual Lane Chassis

The ZOT CXL Chassis has all the features of an AMF 82-90 XL Chassis, plus the following:

Circuit Protection: The ZOT CXL Chassis features four "Resettable" Breakers for each lane for added protection to the fuses in the Pinspotter cabling. If a Breaker trips, simply reset the Breaker after eliminating the cause of the overload.

Note: *There are no fuses on an original AMF 82-90 XL Chassis*

Additional features on the ZOT CXL Chassis include Mechanics option switches for:

a) Sweep Reverse on Offspot
b) Foul on – Foul off
c) Ninepin No Tap plus:
- Sweep and Table Motor Disable pushbuttons
- Continuous cycle LED's

Front End Dual Lane Control Box

#829004 (115V).....**$479.50**
#829005 (230V).....**$479.50**

An enhanced replacement for an AMF 82-90 Front-End Control Box.

The ZOT Front End Dual-Lane Control Box:
- Can eliminate the MCU with other brands (non AMF) of scoring systems.
- Can eliminate the need for the AMF Source Command interface.

Fat Chassis Conversion Kit

#829100 (115V/60Hz) **$3595.00**
#829200 (230V/50Hz).....**$3595.00**

An upgrade for AMF 82-90 Pinspotters with Fat Chassis

The #829100 Kit Includes:
#420516 Hardware CXL
#829101 One CXL Dual Lane Chassis
#829103 One Set Cable Kit
#829104 One Front End Dual Lane Control Box

Kit containing set of 10 each Conversion cables:
#829003.....**$666.60**

Call ZOT at 1-800-525-8116 for more details

Eagle-Eye Infrared Pin Counter

ZOT New and Improved

#823005.....**$199.50**

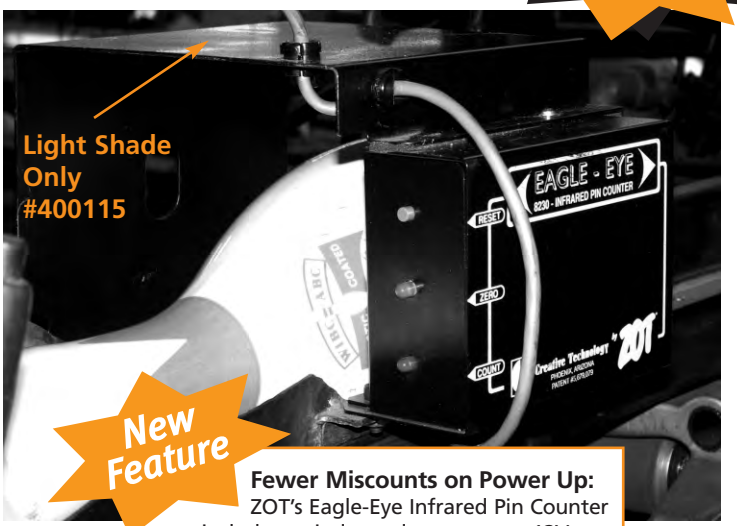
An enhanced replacement for original mechanical pin counters.

The Solid State – MP Controlled CTI by ZOT "Eagle-Eye" Infrared Pin Counter for AMF 82-30 Pinspotters is a high-technology designed product that offers benefits not available in the original mechanical pin counters, or other brands of electronic pin counters.

Added Benefits

No More Miscounts: ZOT's unique Eagle Eye Pin Counter with Ambient Light Shade eliminates pin miscounts.

Reduced Vibration for Longer Life: The mounting for the NEW Eagle Eye Pin Counter and Ambient Light Shade assembly stabilizes the fixture to reduce vibration which improves performance and increases the life of the unit.



New Feature

Fewer Miscounts on Power Up: ZOT's Eagle-Eye Infrared Pin Counter now includes an independent constant 12V Power Supply for Greater Reliability and Fewer Miscounts on Power Up

Features and Benefits

Memory Back-Up: Keeps the Pin Count and/or Zero in case of power loss

LED Indicators: Shows the Pin Count and Zero Positions

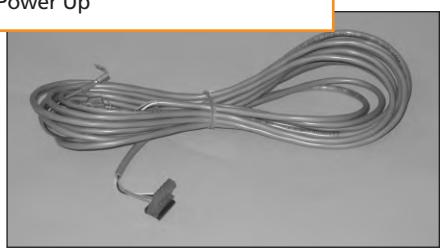
Microprocessor Efficient: State-of-the-Art Technology simplifies the circuit

Infrared Technology: Sees all current pins, including colored and UV Pins

Compatibility: Interfaces with all 82-30 Chassis

Reset Button: Sets the Eagle-Eye to Zero Pin Count

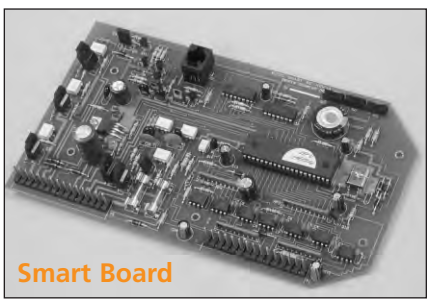
Ease of Installation: The Eagle-Eye unit mounts in existing Pin Counter bracket holes, plus two additional holes that must be drilled



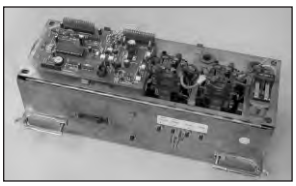
Smart Board for AMF 82-30 Pinspotter Chassis

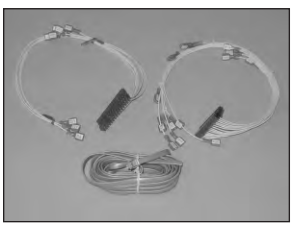
#823004.....**$502.93**

An enhanced product to restore and improve original AMF 6525 & 5850 Chassis. The CTI by ZOT "Smart Board" not only replaces the Stepper Coils it also replaces all of the PR Relays and Timer Motor.


Smart Board

- The Solid State – MP Controlled CTI by ZOT "Smart Board" for AMF 82-30 Pinspotter Chassis is a feature rich product that restores and improves the performance and reliability of AMF 6525 & 5850 Chassis.
- This superior product is easy to install, but ZOT also of fers the option of returning your old chassis for factory installation of the board and thorough diagnostics and restoration. Call ZOT for a quotation.





Features and Benefits

Microprocessor Efficient: State-of-the-Art Technology simplifies the circuit

Scoring Interface: Compatible with all Major brands of scoring

Short Cycle Capable: Allows for the Automatic Scoring to communicate on a strike that the table does not go down to feel for pins

Power LED: Indicates when the "Smart Board" has power

Ease of Installation: All connections made with quick disconnect terminals

Option Switch's

Cycle: Allows the pinspotter to be cycled from the managers control when going from Instruct-O-Mat to Bowl

Instruct: Disables managers control for Instruct-O-Mat by keeping power of f the machine

Foul: Enables disabling of the foul communication to the machine: without disabling the foul light at the approach

Solid State 82-30 MP Air Chassis

#823001 (115V/60Hz) AMF #6525.....**$1244.00**
#823003 (115V/60Hz) AMF #5850.....**$1244.00**

An Enhanced Direct Replacement Chassis for AMF 82-30 Pinspotters

Improved

The "New" Generation

ZOT has reengineered and designed selected components in the 82-30 MP Chassis and is pleased to introduce the MP Air, a much more user friendly and reliable pinspotter controller for your AMF 82-30's.

Replacement Breakers

#220040 12-AMP **$15.53**
#220039 10-AMP **$15.53**

Replacement Fuses For Solid State 82-30 MP Chassis

#220022 15-AMP **$2.52**
#220009 10-AMP **$2.52**

Check these "all new" added Features and Benefits:

Circuit Protection: The original Slow-Blow fuse protection has been replaced with four "Resettable" Breakers, all set at lower amperages than the original fuses, for added protection. If a Breaker trips, simply reset the Breaker after eliminating the cause of the overload.

Air Cooling System: The internal components of the chassis will be air cooled by a fan mounted in the side panel of the unit. Just like a computer, the fan runs at all times when power is applied to the Pinspotter , e.g., form the Managers Control.

Diagnostic LED's

Power: Indicates when the chassis has power

High Voltage Fault: Indicates when there is a short in the 115Volt circuit

Low Voltage Fault: Indicates when there is a short in the 24Volt circuit

Cycle: Lights when machine is in continuous cycle

1st – Ball – 2nd: Indicates whether the machine is on First or Second ball

Sweep: Lights when button is depressed while operating a Sweep

Table: Lights when button is depressed while operating the Table

Pin: Lights when pin feed solenoid is energized to fill the table

L & K: Checks all the respot cell switches

Foul: Lights when the chassis receives a signal from the foul unit

Instruct: Lights when machine is on Instruct-O-Mat mode

Option Switch's

Cycle: Allows the pinspotter to be cycled from the managers control when going from Instruct-O-Mat to Bowl

Instruct: Disables managers control for Instruct-o-Mat by keeping power off the machine

Foul: Enables disabling of the foul communication to the machine: without disabling the foul light at the approach

Push Button Function Controls

Sweep: Enables running the sweep from the Chassis

Table: Enables running the Table from the Chassis

Reset / Program Zero: Enables zeroing the memory of the Chassis. Also serves as a manual intervention (a safety feature for mechanics) if the Chassis is shut down. This button "Must be Depressed" to restart machine

1st – Ball – 2nd: Enables the Mechanic to toggle the machine between 1st and 2nd ball.

Cycle: Enables the Mechanic to cycle the machine from the Chassis and operate a Continuous Cycle

Pin: Enables the Mechanic to control the Pin feed solenoid

L & K: Enables the Mechanic to perform a test of all the respot cell switches

Resetable Breakers

Main Power Circuit Breaker: Shuts down power to the machine

Table Motor: Protects Chassis if motor overloads

Sweep Motor: Protects Chassis if motor overloads

Back-End Motor: Protects Chassis if motor overloads

Solenoid: Protects Chassis if a short occurs

"The promotion that changed an industry...its good today...and it'll still be good tommorrow"

Some thoughts about Glow Bowling

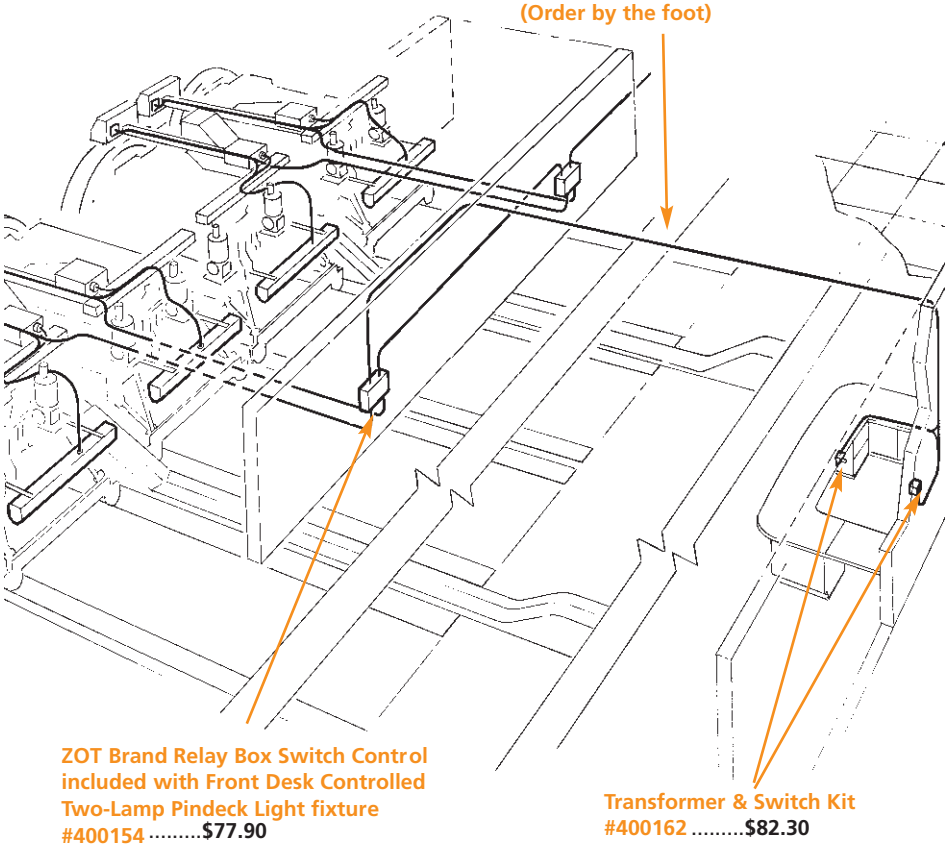
Recreation centers – centers that have the flexibility to provide an environment for both entertainment and sport bowling – are centers that make the most money and the highest profits for proprietors today.

And, there's no better place to start introducing Glow Bowling than at the pindeck…by adding ZOT Glow Pindeck Light or GlowVision fixtures. Some proprietors have done it the other way around, added Glow lighting to everything in their center…except the pindeck.

"Those proprietors have missed the point." Whether we're talking about Sport or Recreation bowling, the game's about pins…and trying to knock them down. And, if the pins don't "Glow" you're really not in the Glow Bowling business.

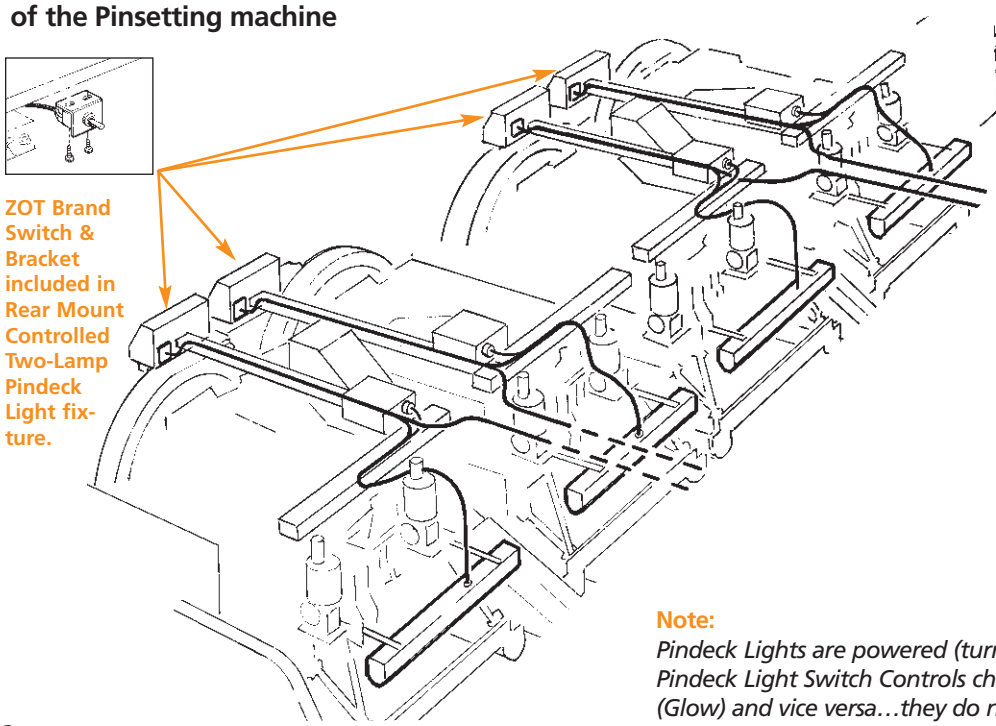
Adding ZOT Glow Pindeck or GlowVision Lights is also the quickest and least expensive way to get started in the Glow bowling business. Combine a Glow Pindeck with a good promotion plan, and your customers and your business will both profit from the Glow Bowling Experience.

Control up to 24-lanes with One Switch with **ZOT's** Front Desk Switch Control
Logically the First Choice


Two Conductor Wire
#312003 .....$0.13/foot
(Order by the foot)
ZOT Brand Relay Box Switch Control included with Front Desk Controlled Two-Lamp Pindeck Light fixture
#400154 .....$77.90
Transformer & Switch Kit
#400162 .....$82.30

Take Control of Your Fixtures

Control Each Lane Individually with ZOT's Switch Control on the Rear of the Pinsetting machine



When **ZOT** researched and developed its Glow Pindeck Light system it was obvious that proprietors were looking for options that are the best fit for their individual center needs. For example, switch control* options that enable switching from white (sport bowling) to ultra-violet (recreation bowling) light from the front desk, or the rear of the pinsetting machine.

Both are better options than other brands offered that has the switch control on the fixture…which requires the mechanic to walk across the lanes to access the switch…and, in full view of your customers. For more details on **ZOT GlowVision** and Two-Lamp **Glow** Pindeck light systems contact your **ZOT** Distributor, or call **ZOT** directly at **1-800-525-8116.**

Note:
Pindeck Lights are powered (turned on and off) by the Pinsetter. Pindeck Light Switch Controls change the lights from White to Black (Glow) and vice versa…they do not turn the Pindeck lights on or off.

ZOT Two-Lamp Glow Pindeck Light Fixture

"An opportunity that's too good to miss! ZOT's Two-Lamp Glow Pindeck Light costs less than replacing an original AMF Dual Pindeck Lamp"

Front Desk Switching Option (See page 12 for control)

#420336 (115V/60Hz).....$311.50

MUST ORDER IN PAIRS

For all Domestic (US) applications, and some overseas markets, as appropriate.

#420355 (230V/50Hz).....$322.00

MUST ORDER IN PAIRS

For some overseas markets, as appropriate.

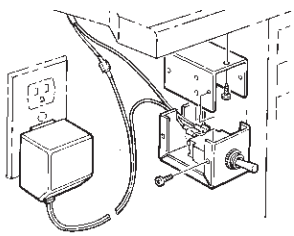
This option enables switching from White to Black Light on all lanes in unison from the Front Desk.

Note:
For every two units you order of either of the above part numbers ZOT automatically includes one Relay Box Switch Control and 14' of connecting wire for every two units.

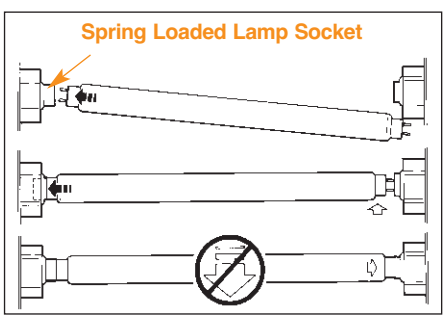
When you order either of the above part numbers you will also require:

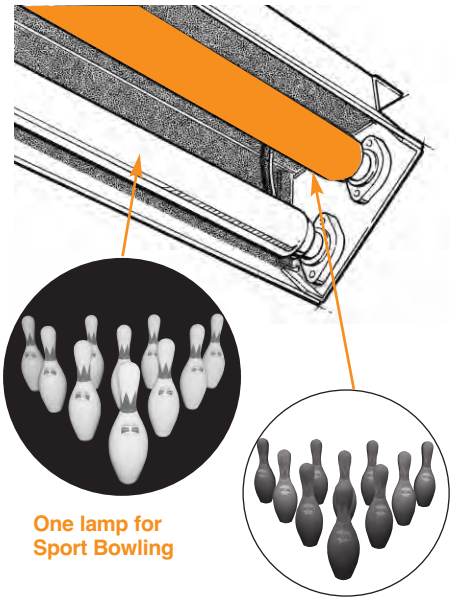
A. One length run of wire #312003 12ft. for up to 24-lanes to extend from Curtain wall to Front Desk (order by the foot).

B. One each #400162 **($79.90)** Transformer & Switch Kit (serves up to 24-lanes).



Transformer & Switch Kit (Order Separately)





All it takes is a flip of a switch to convert your center from a Sport to Recreation center…and it starts with **ZOT** Two-Lamp **Glow** Pindeck Lights

Rear of Pinsetter Switching Option (See page 12 for control)

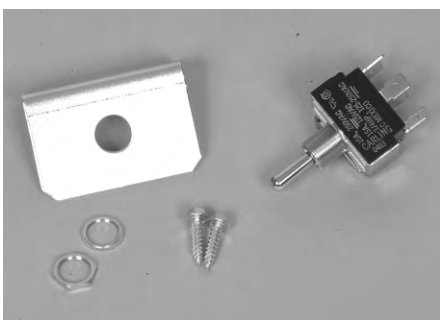
#420334 (115V/60Hz).....$297.50

For all Domestic (US) applications, and some overseas markets, as appropriate.

#420340 (230V/50Hz).....$308.50

For some overseas markets, as appropriate.

This option enables easy switching from White to Black light lane by lane from the rear of the pinsetter. Each unit comes complete with a Toggle Switch and mounting bracket.



Features and Benefits:

Welded Steel Construction: ZOT's Two Lamp Glow Pindeck light fixtures are built with 20-gauge steel and will withstand years of excessive vibration in the pindeck area.

Spring Loaded Lamp Sockets: ZOT includes Industrial Style Spring Loaded lamp sockets designed to extend lamp life and prevent lamps from shaking loose and shattering on the pindeck. (see illustration)

High Power Ballast: Each ZOT fixture includes Two High-Power Ballast's that yield reliable service and a wide range of power supply.

Compatibility: The ZOT Ballast's are compatible with the original AMF lamps, enabling reuse of lamps you already have. And the mounting holes on the ZOT fixture are of the same dimensions as the original AMF 82-70 Single lamp fixture.

Switching Options Suit Your Needs: ZOT offers the option of switching from Sport to Recreation (Glow) Bowling from the Front to Desk or the Rear of the Pinsetter .

Light Reflective Finish: ZOT's Unique formula Ultra-White finish reflects a high degree of Ultra-Violet light onto the pindeck.

ZOT's Two-Lamp Glow Pindeck light fixtures are recommended for centers with the following scoring systems

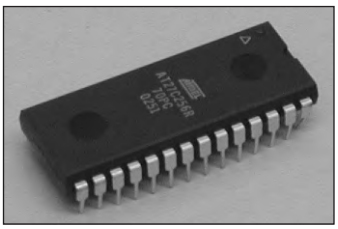
- AMF MagicScore
- AMF AccuScore**
- AMF AccuScore Plus*
- AMF Boss Scoring
- Brunswick AS 80
- Other Brands*

**FrameWorx with VPS Cameras and many other current model scoring systems available from independents, including: Qubica, Steltronic & Twelve-Strike.

***May require camera software upgrade - call ZOT for details.**

Light Sensitive Processors for AMF Scoring

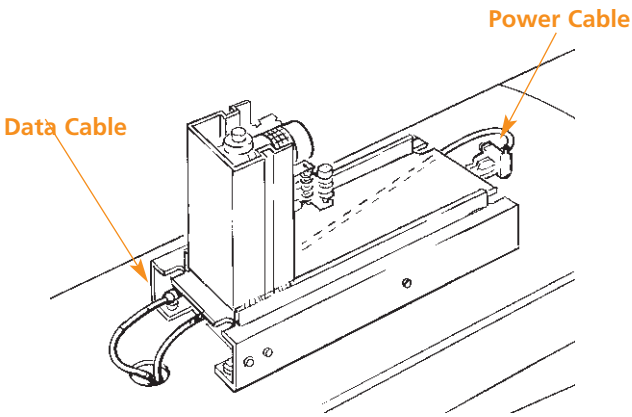
AccuCam I Processors



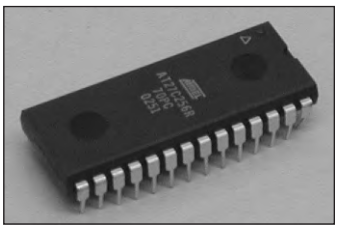
#400235 .....**$18.90**

This processor chip has been designed to give the camera the ability to read pins under both White Light and Black Light.

This current software development helps eliminate miscount of pins under all light conditions.



AccuCam II Processors



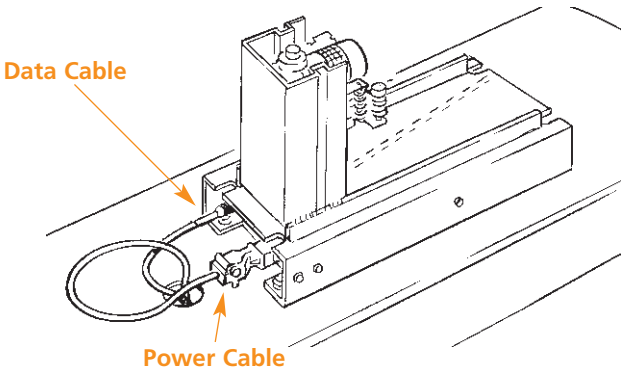
#400236 .....**$18.90**

AccuScore Plus XL Processors

#400257 .....**$18.90**

This processor chip has been designed to give the camera the ability to read pins under both White Light and Black Light.

This current software development helps eliminate miscount of pins under all light conditions.



Upgrades for ZOT Dual Pindeck Lamp Fixtures

The two kits listed below are used to convert switching ZOT Two-Lamp Glow Pindeck Lights from the rear of the machine to the location of your choice (e.g., the Front Desk)

Features and Benefits:

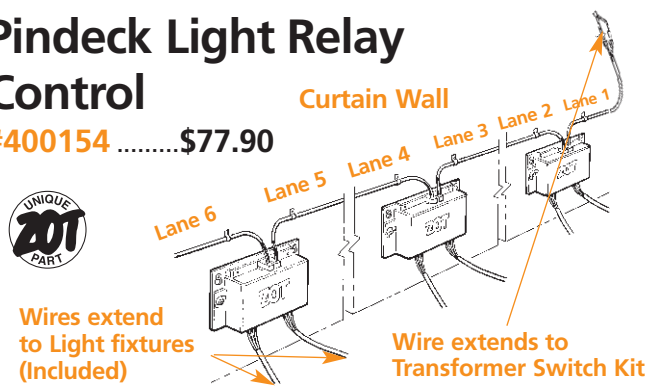
Replaces toggle switch at rear of Pinspotter with relay controller.

Enables switching from White to Black (Glow) light to be managed from the Front Desk, Mechanics Tool Room or any other remote location as needed

Enables switching from White to Black (Glow) Light on up to 24-lanes in unison.

Pindeck Light Relay Control

#400154 .....**$77.90**



Notes:

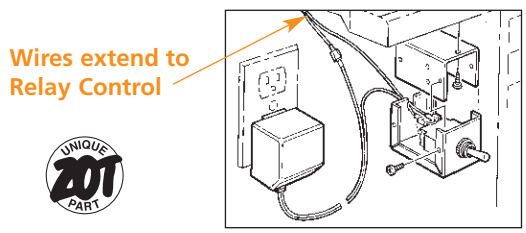
One Relay Controller operates a pair of lanes

Requires one Two-Conductor Wire runs per 24-lanes (not included) to connect Front Desk Transformer & Switch Kit to Relay Control at Curtain Wall. Order #312003 (order by the foot)

Requires **#400162** **$79.90** *to operate*

Transformer & Switch Kit

#400162 (115V/60Hz) **$82.30**



#400212 (230V/50Hz) **$95.87**

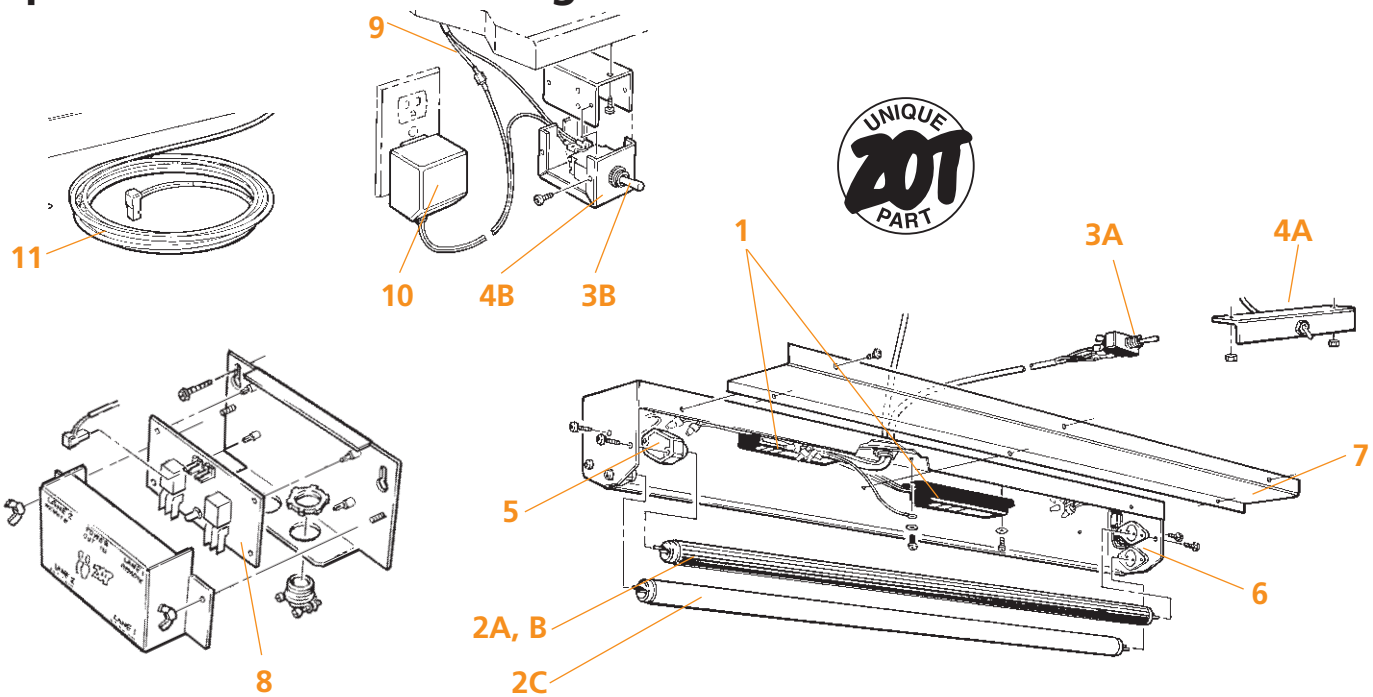
Transformer: Plugs into wall outlet and supplies power to the Relay Controller

Notes:

One transformer and switch kit can operate up to 24-lanes

Some overseas applications may require a different transformer to those listed. If the transformer is being sourced locally, to purchase the Switch and Mounting Box only, order: **#400163**.....**$42.04**

Spare Parts for Pindeck Lights



Note: *To order individual parts refer to parts grid shown below*

Item	ZOT #	Description	Item	ZOT #	Description
1	290015	Single Lamp Ballast (115Volt / 60Hz) (5-wire multi purpose 30 Watt)	4B	400161	Switch Bracket (Front Desk Control)
			5	330029	Spring Loaded Lamp Socket (ZOT)
2A	240010	"36" Lamp F30 T8 BLB (Black Light Blue)"	6	330030	Stationary Lamp Socket (ZOT)
2B	240015	"36" Lamp F30 T8 BL (Black Light)"	7	620159	ZOT Ballast Cover
2C	240012	"36" Lamp F30 T8 D (Day Light)"	8	431049	PC Board Only (ZOT Relay Controller)
3A	300023	Toggle Switch (SPDT) (Rear Machine Control)	9	312003	Wire 2 Conductor 18 Gauge (Order by the foot)
3B	300026	Toggle Switch (DPDT) (Front Desk Control)	10	400160	Transformer (Front Desk Control)
4A	620160	Switch Bracket (Rear Machine Control)	11	440058	Wire Harness 2 Conductor 14ft. (Relay Controller)

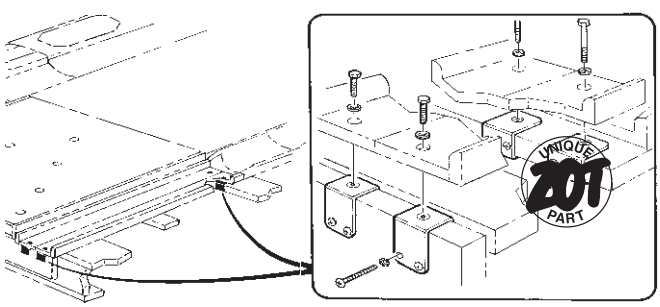
Call ZOT for pricing

Flat Gutter Anchor

#420343 Complete One-Lane Kit **$73.38**
(Includes hold down screws and 4-Threaded Steel Flat Gutter Anchors for tail-plank end, & 4 Anchors for cross foundation to secure 2 x Flat Gutters)

#420361
Individual Anchors,
Tail Plank End.....**$13.39**

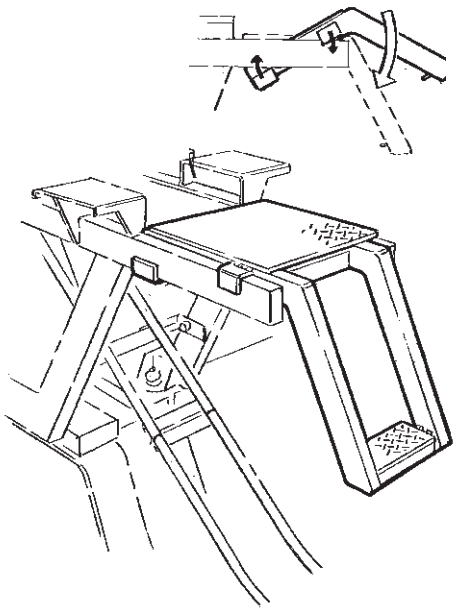
#420362
Individual Anchors,
Cross Foundation.....**$11.28**



Front Mounted Steel Steps

For AMF 82-70 & 82-90 Pinspotters

#420468.....$106.58



"Introducing a New Product at an Introductory Price"

This is the product mechanics have been asking for – Steel Steps that enable easy and safer access to AMF 82-70 & 82-90's from the front of the pinspotter.

Features and Benefits:

Easy to Install: The steps simply hook in place and can easily be moved to another pair of lanes.

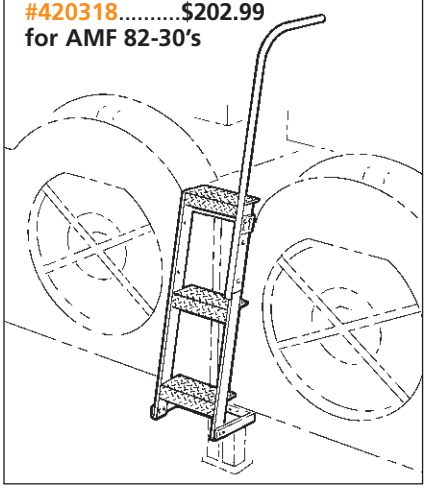
Easy and Safer Access to the Pinspotter: From the front of the machine, saving time and energy or attempting to scale the machine by standing on machine parts.

Suitable for all 82-70 & 82-90 Installations: Where the mask unit is mounted approximately 2-feet (or more) from the front of the Pinspotter.

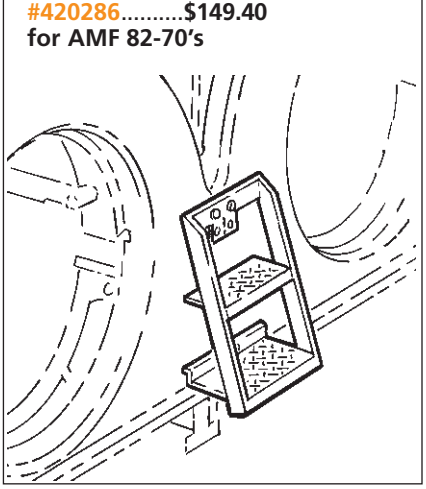
Steel Steps

If climbing onto your pinspotters seems like climbing Mount Ever est… Install ZOT's all Steel Steps – Today!

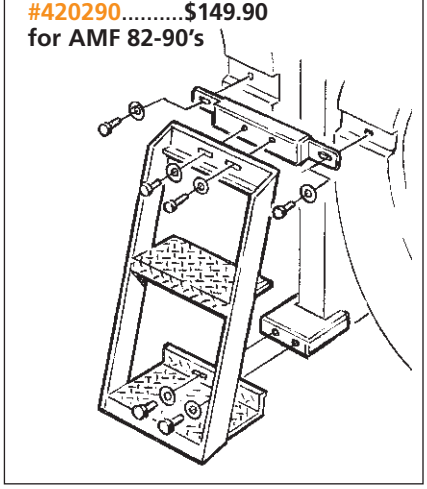
#420318.....$202.99
for AMF 82-30's



#420286.....$149.40
for AMF 82-70's



#420290.....$149.90
for AMF 82-90's



Features and Benefits:

Increased Safety in the Work Place: No more hazardous climbing up the rear of AMF Pinspotters. ZOT Steel Steps, which feature Diamond Plate Tread on the Risers, make access to your pinspotters easier and safer than its ever been.

Easy Installation: ZOT's All Steel Steps simply bolt onto the back of the machine, using existing holes, and hangs on the rear elevator.

Does not turn the Back End Aisle Space into an Obstacle Course: The mounting of the steps, which projects approximately 6" (.16M) from the back end of the machines, begin at the level of the first riser, leaving the aisle and floor space free for easy access and cleaning.

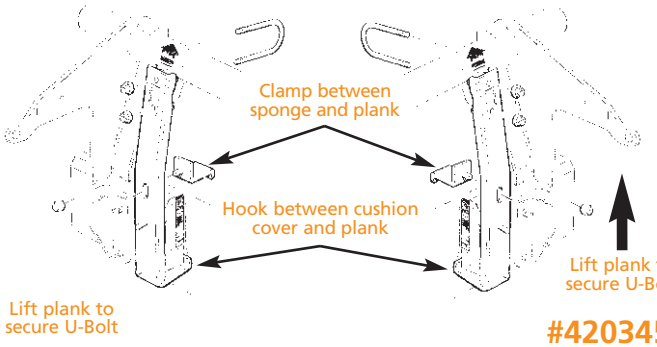
Note:
The Steps for AMF 82-30's can be unhooked, and lifted from the machine, without removing any bolts.

Cushion Weldmet Repair Kit

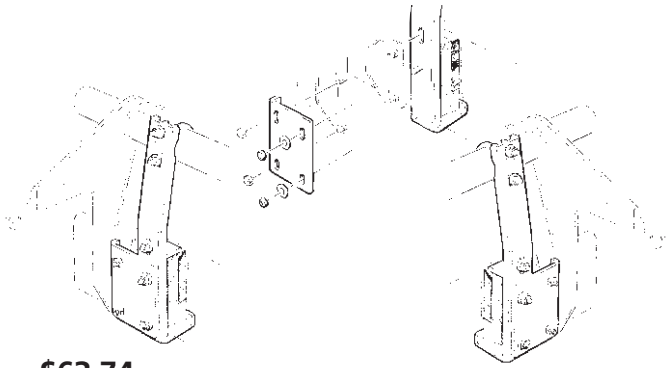
For AMF 82-70 Pinspotters

#420344.....$63.74
(Ball Door Side)

Here's the (Temporary) Fix

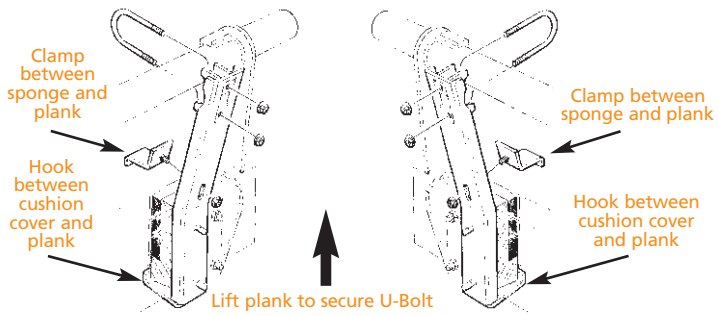

Clamp between sponge and plank
Hook between cushion cover and plank
Lift plank to secure U-Bolt
Lift plank to secure U-Bolt

Here's the (Permanent) Fix

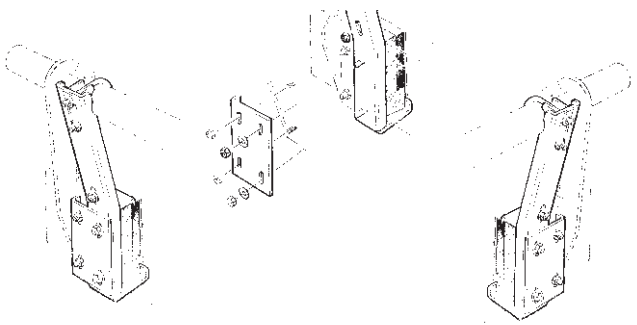


#420345.....$63.74
(Opposite Ball Door Side)

Here's the (Temporary) Fix


Clamp between sponge and plank
Hook between cushion cover and plank
Clamp between sponge and plank
Hook between cushion cover and plank
Lift plank to secure U-Bolt

Here's the (Permanent) Fix



Features and Benefits:

Virtually no down time: If either end of the cushion weldmet breaks the machine can be fully operational within minutes with a ZOT Repair Kit.

Temporary or Permanent Repair: It's your choice. The ZOT Cushion Weldmet Repair Kit enables you to make an instant temporary repair. At a more convenient time you can add ZOT' s Universal Mount Plate (included in the kit) for a permanent repair solution .

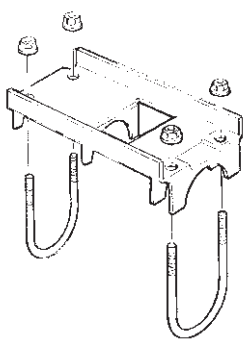
Universal Application: The repair kits fit either left or right handed machines and any brand of cushion weldmet.

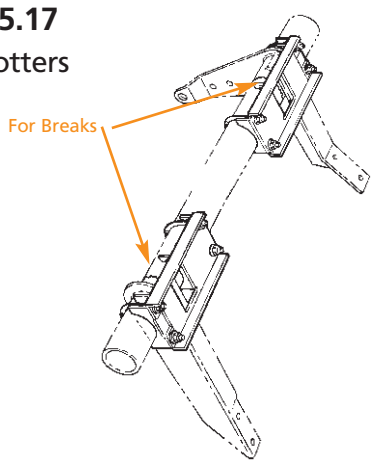
Easy to Install: No welding – No dismantling – Bolt-on application for either temporary or permanent repair .

Cushion Support Center Tube Repair Kit

#420019 .....$25.17

For AMF 82-70 Pinspotters





Features and Benefits:

Virtually no down time: If the center tube of the cushion breaks the machine can be fully operational within minutes with a ZOT Repair Kit.

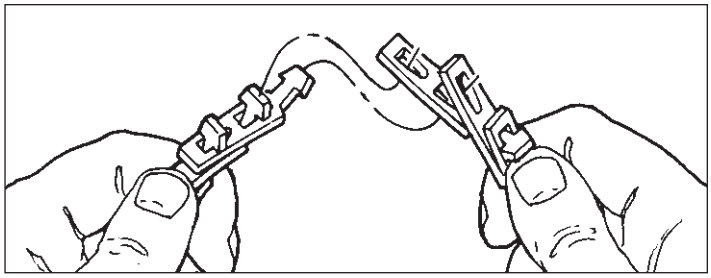
Temporary or Permanent Repair: It's your choice. The ZOT Cushion Support Center Tube Repair Kit enables you to make an instant repair.

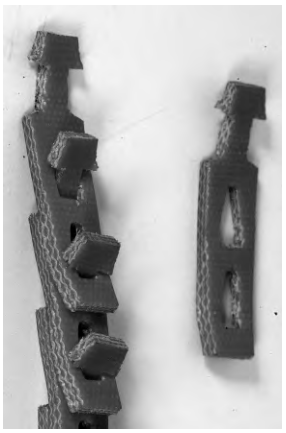
Universal Application: The repair kits fit either left or right handed machines and any brand of cushion weldmet.

Easy to Install: No welding – No dismantling – Bolt-on application that only requires adding nuts to two U-Bolts for either a temporary or permanent repair.

Link Belt

Tired of having to stock dozens of V-belts in dozens of different lengths… only to find you're missing the one you need, when you need it most? Purchases both sizes (1/2" & 5/8") of ZOT Link Belts and you'll no longer need to worry whether you have the right combinations of matching belt lengths in inventory. ZOT's Link Belt comes in 20-foot lengths per box, and, with a simple twist of the wrist, you'll have a belt that's a perfect fit for your needs.





Features and Benefits:

Permanent Replacement of endless and spliced V-belts.

Eliminates Needs to stock extensive line of replacement belts.

Easy Installation without dismantling pinsetter drives.

Extended Life because of Oil and Chemical resistant composite polyurethane/ polyester construction.

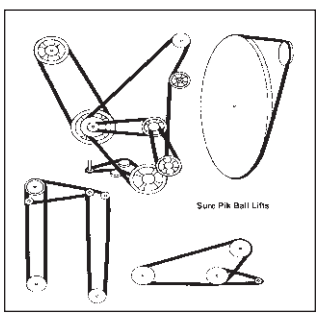
#420190.....**$215.35**

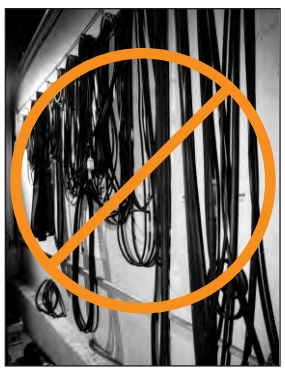
5/8" X 20' Long

#420189.....**$186.80**

1/2" X 20' Long

Suitable for:
All 5 Carpet Drive Belts (1/2")
Ball Elevator Drive Belt 58" (1/2")
Ball Rudder Secondary Belt (1/2")
PBL Rudder Drive Belt 40" (1/2")
PBL Rudder Drive Belt 38" (1/2")
PBL Rudder Ratchet Belt 45" (1/2")
Spectrum Ball Lift 'V' 70" (1/2")
Spectrum Ball Lift 'V' 36" (1/2")
Sure Pik Motor to Pulley 47" (1/2")
Pin Elevator Belt (5/8")





Adjustable Bin Strap Kit

For AMF 82-70 Pinspotters

#420400.....**$32.35**

ZOT's Adjustable Bin Strap Kit solves multiple Bin, Shuttle and Table problems with a single product.

Features and Benefits:

Engineered for Ease of Adjustment: With ZOT's Adjustable Bin Strap, matching the height of the Bin to the Shuttle and Table is no longer a major task.

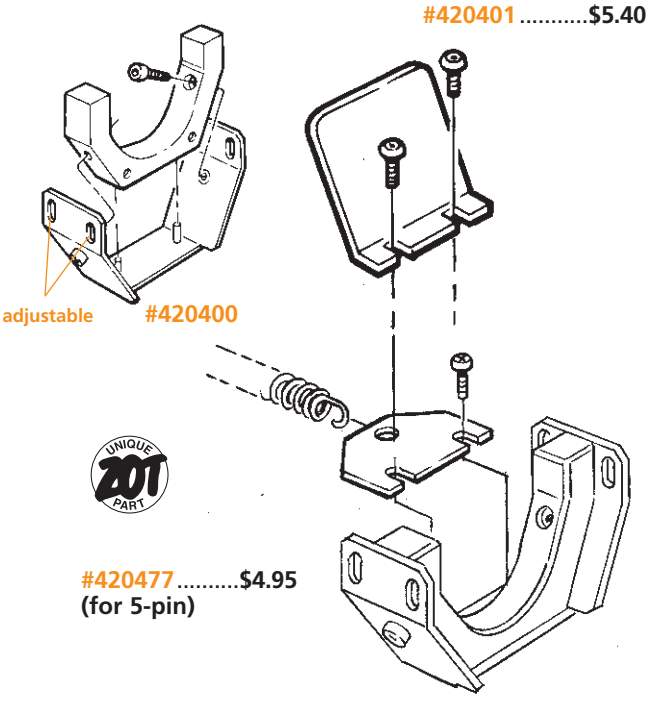
Saves Time: Gives the mechanic a quick and easy way to maintain Bin adjustments.

Decrease Parts: Eliminating the (4) rubber bumpers with (1) bolt-on pin protector.

Increase Pin Life: ZOT's Blue Diamond Series Urethane Pin Protector adds to the life of your pins.

Eliminate Double Shuttles: By adding ZOT's optional Bolt-on Guide Plate **#420401**.....**$5.40**.

#420401.....**$5.40**



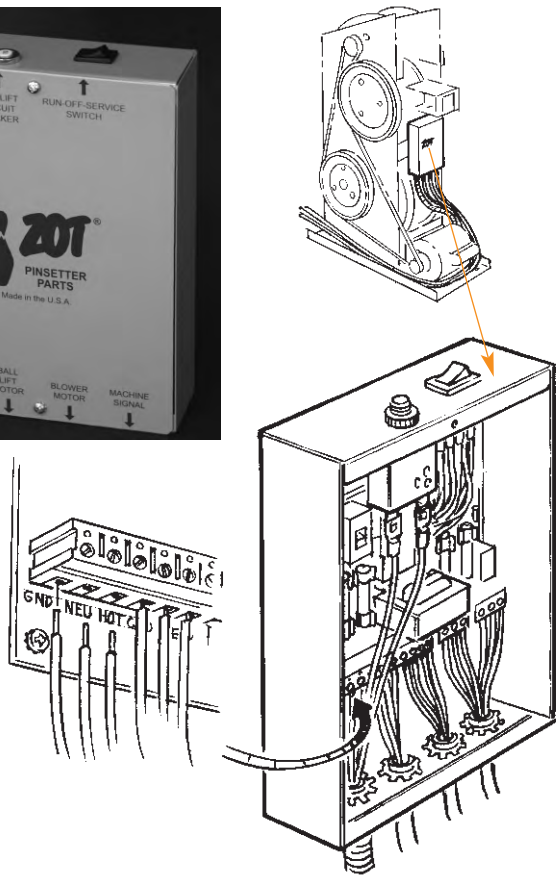
#420477.....**$4.95**
(for 5-pin)

ZOT Front Ball Lift Relay Box

For all centers with Brunswick 'S' Style Front Ball Lifts with two Lift Wheels/Tires

 # 400208 .....$228.30

ZOT's Front Ball Lift Relay Box is a direct replacement for the relay box on all Brunswick 'S' Style Front Ball Lift Assemblies with two Wheels or Tires, including AMF, Brunswick, Murrey and Vantage.



Check out these benefits:

Easy to Service: The entire relay PC Board can be changed in minutes.

Easy to Install: The relay box can be changed in minutes. All wire connections feature solderless fittings.

Simple Design: Eliminates expensive military style connector

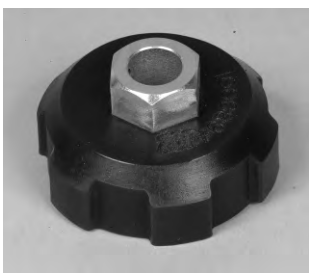
Circuit Protection: The Motor Circuit features a resettable breaker: When a ball-jam occurs simply clear the jam and reset the breaker.

Hand Dryer Transformer - 24 Volts output
#400256 .....$45.30

Saw Tooth Kicker Wheel

New Urethane Formula

#680001 .....$12.50



ZOT's Saw Tooth Kicker Wheel has design features that significantly improve the performance of AMF 82-30 & 82-70 Pinspotters with Kicker Style Ball Returns.

20% softer for superior ball grip.

Features and Benefits:

Saw Tooth: Designed to create a Ratchet like affect that prevents ball slippage, thereby ensuring a positive drive to the kicker wheel.

Urethane Formula: The Urethane used in ZOT's Saw Tooth Kicker Wheel, is formulated to retard oil and have incomparable gripping power.

Hexagonal Insert: The Hexagonal Center Mounting Hub is designed to reduce the possibility of tear out.

Universal Design: ZOT's Saw Tooth Kicker Wheel will work effectively on odd or even lanes without being affected by the direction of rotation.

"Try One"

Enhanced Ball Return Assembly Pad Kit

UNIQUE ZOT PART

For AMF 82-30 & 82-70 Pinspotters with Kicker Style Ball Returns

#420402 .....$37.65

ZOT's specially formulated Blue Diamond Urethane Enhanced Ball Return Assembly pads solve a myriad ball return problems.

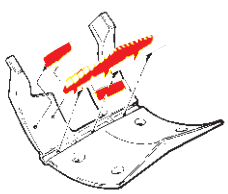
Features and Benefits:

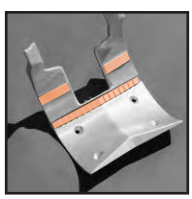
Engineered for More Positive Ball Return: A pad featuring a series of Positive Drive grooves create a ratchet like affect to the ball return, and two Pressure-Control pads increase ball-surface contact with the kicker wheels.

Fewer Ball Calls: The ZOT Ball Return Pads significantly enhance the assembly's ability to return ball after ball after ball.

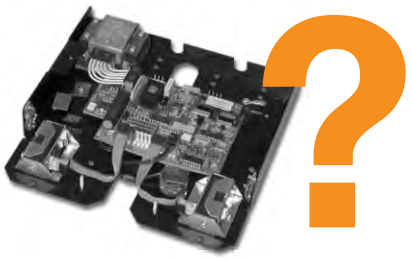
Faster League Times: With fewer balls rolling back into the pit carpet area league times are significantly reduced.

Increased Customer Satisfaction: Faster league times with fewer ball-calls makes the game that much more enjoyable.



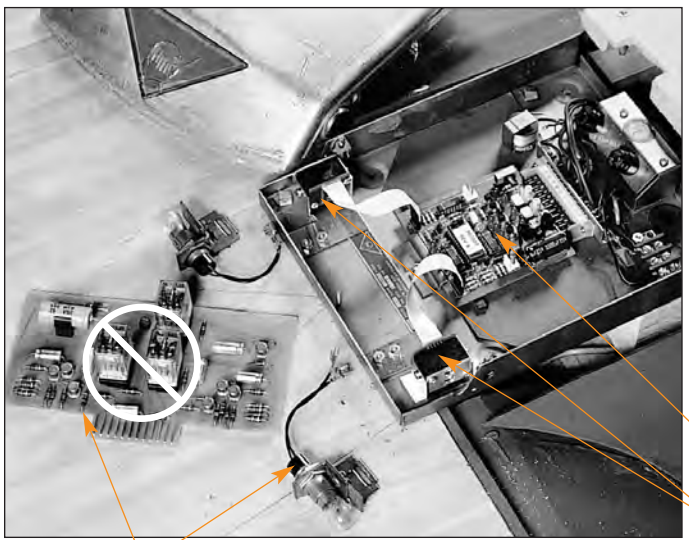


How to select the right Foul Detector product for your center



ZOT's Wizard 'Plus' Foul Detector is universally recognized as the most reliable product in the industry. No other brand can match the features included in the ZOT product.

If you have:	Order:
Subway (Underlane) Ball Returns Replacement for AMF Radaray 82-68, 82-94, 82-120 & Radaray Plus	Wizard Plus **#400143** (See Page 22)
Subway Ball Returns with no 115 V available at the foul line (replacement for AMF 82-08 Radaray)	Wizard Plus Foul Detector & Covers Package **#400167** (See Page 23)
Surface (overlane) Ball Returns (replacement for AMF 82-08 Radaray)	ZOT Wizard Extreme Surface **#400301** (See Page 24)
Modification (Upgrade) for AMF 82-120 Radaray Systems	Wizard Enhanced P.C. Board **#400074** & Wizard Infrared Head Conversion **#400076** (See Page 20)
Modification (Upgrade) for AMF Radaray Plus	AMF Radaray Plus Foul Detector Conversion **#400272** (see page 21)



Wizard Enhanced P.C. Board

#400074.....**$123.90**

UNIQUE ZOT PART

Wizard Infrared Head Conversion

For AMF 82-120 Radaray Systems

#400076.....**$134.90**

Features and Benefits:

Simple Plug in Installation: The ZOT Enhanced P.C. Board simply plugs into the existing equipment, with no modification necessary.

Alignment Indicator: A 4-unit LED system indicates when the signal is strongest. This aids the installer and the mechanic, should realignment ever be necessary.

Self Diagnostics: ZOT's exclusive micro processor circuit automatically checks sensor signal levels every time you switch the unit on, and every time there is a foul.

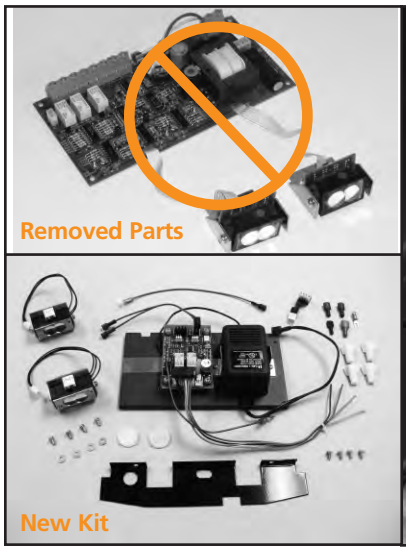
Easy Conversion to Infrared: The ZOT P.C. Board operates with the original photo cell and bulbs, but it also includes the drive circuit for Infrared sensors. The ZOT Infrared Sensor Source is Solid State Diode rated for millions of hours of dependable service – a great improvement over the 2,000 hours rating of the old incandescent bulbs.

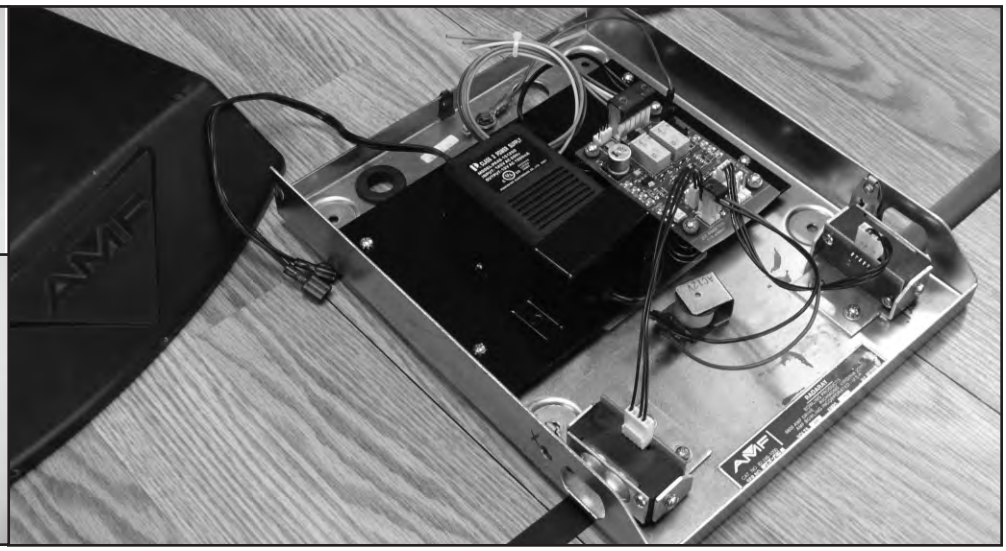
Easy to Install: The ZOT Infrared Head Conversion simply plugs into the ZOT Enhanced P.C. Board.

All the Features of the ZOT Wizard: That's what you get when you complete your upgrade and combine the ZOT P.C. Board with the ZOT Infrared Head.

AMF Radaray Plus Foul Detector Conversion

#400272 .....**$227.50**





Replaces all problem parts: e.g. New Transformer, New Sensors and Main PC Board.

Cost Effective: the new ZOT parts will run 'trouble-free' for the next 20-years.

All Modular Design: all individual components simply plug into the PC Board, making troubleshooting and replacing parts easy.

Self Diagnostics: ZOT's microprocessor automatically checks the sensors every time a foul occurs and the unit will turn itself off automatically, one lane at a time, if it detects a problem.

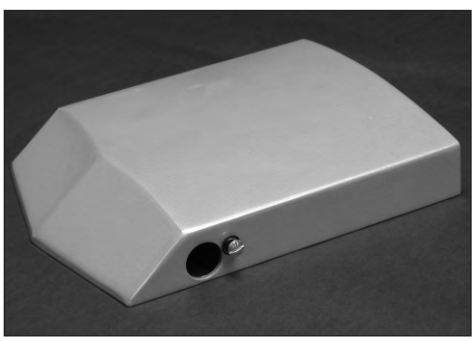
Alignment Indication: a 4-unit LED system indicates signal strength, assisting the installer and/or mechanic in aligning the sensors.

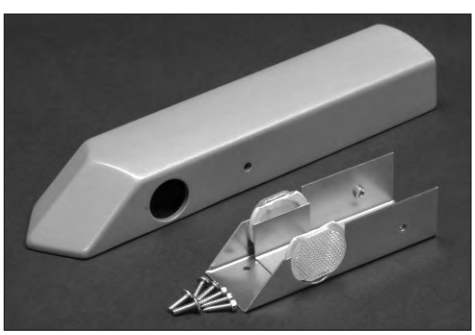
Light Source Recognition: ZOT's infrared design features a special operational frequency for its emitter and receiver communications. Matching this frequency eliminates being affected by alternate light sources, e.g. overhead and cosmic/glow lighting.

Vibration Protection: The PC Board is mounted on a shock-absorbing buffer that minimizes ball-impact vibration that can damage delicate circuitry common to PC Boards.

Wizard Metal Foul Detector Covers

#420295 (Wide) Ball Return Cover/Black **$114.90**
#420296 (Narrow) Divider Trim Cover/Black **$92.90**
#420191 (Wide) Ball Return Cover/Aluminum **$112.37**
#420192 (Narrow) Divider Trim Cover/Aluminum **$95.55**



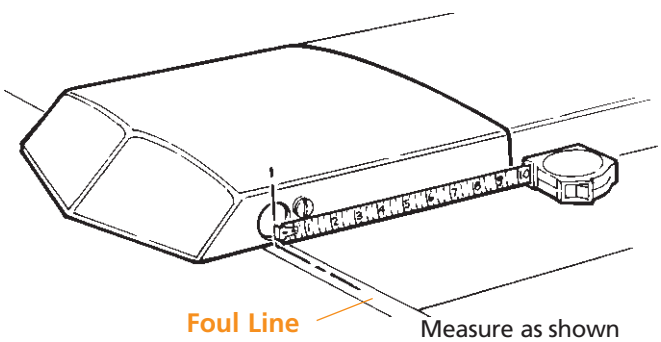


Features and Benefits:

Vinyl Finish: Available in Black or Aluminum.

Rugged Construction: ZOT's Metal Foul Detector Covers are designed and manufactured for decades of trouble free service.

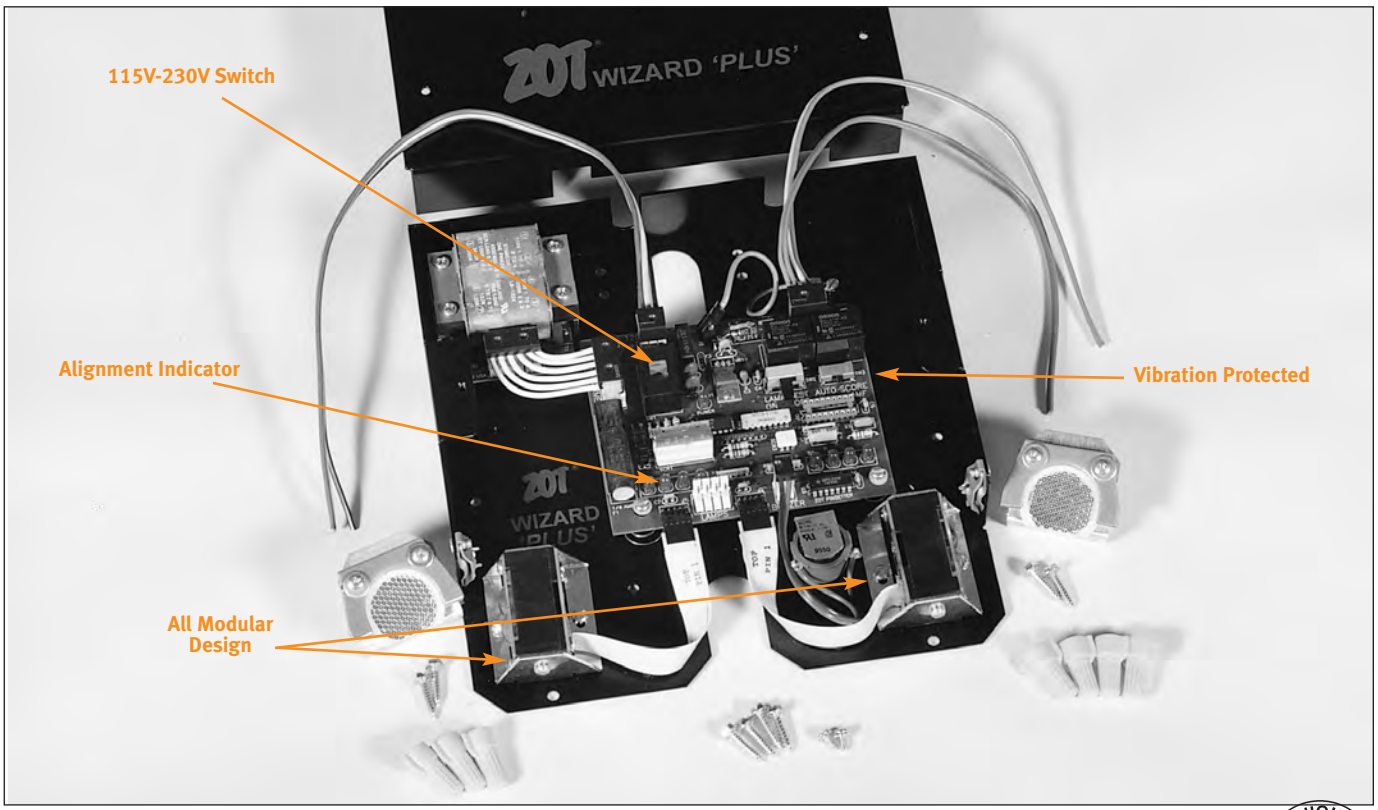
Replacement for AMF Radaray Systems: with 9-5/8" (.244M) Trim End to Foul Line, including: AMF 82-68, 82-94, 82-120 and current product line.

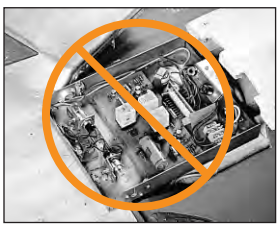


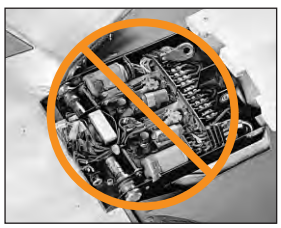
ZOT Wizard 'Plus'

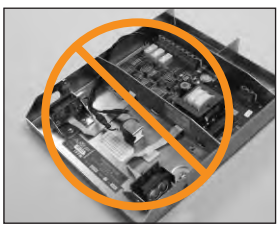
For AMF Subway Ball Returns

#400143.....**$363.50**









Replaces **AMF Radaray 82-68, 82-94, 82-120 & RadarayPlus**

UNIQUE ZOT PART

Only Available from ZOT. No other manufacturer or supplier offers a foul detector unit that even comes close in terms of features and benefits. **Check it out for yourself.**

Wizard Plus Features and Benefits:

Infrared Technology: The ZOT Wizard Plus features an infrared sensor that is solid state and rated for millions of hours of dependable service. Infrared sensors eliminate old incandescent bulbs.

Alignment Indicators: A 4-unit LED system indicates signal strength. This aids the installer and/or mechanic in the alignment of the sensors.

Automatic Scoring Compatible: ZOT Wizard Foul Units transmit the proper signal needed to communicate with automatic scoring systems. Changing the signal is as easy as: either flipping a switch.

Marginal Signal Alert: ZOT Wizard Foul Units will alert the mechanic to pending problems. Four different sequences of buzzer signals can occur if the unit has a failure allowing the mechanic to troubleshoot.

All Modular Design: All the individual components simply plug onto the PC Board, making troubleshooting and the replacement of parts simple.

Self Diagnostics: ZOT's microprocessor automatically checks the sensors every time there is a foul. If the any Wizard unit detects a problem it will automatically turn itself off... one lane at a time.

Remote Switching: ZOT's Wizard Plus can be disabled remotely lane by lane (e.g., from the front desk), in centers with compatible scoring systems.

Low Profile: Built for subway ball returns, serving two-lanes, the Wizard 'Plus' fits under most major brands of existing wide ball return covers.

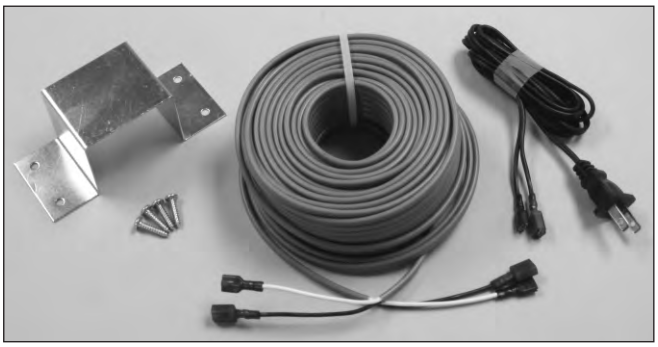
Microprocessor Efficient: All ZOT Wizard Foul Units have State-of-the-Art Microprocessor technology. This simplifies the circuitry, making all Wizard Units more cost effective and reliable.

Light Source Recognition: ZOT's infrared design features a special operational frequency for its emitter and receiver communications. Matching this frequency eliminates an affect from alternate light sources: e.g. overhead lighting, and cosmic/glow lighting.

Vibration Protection: The PC Board is mounted on a shock-absorbing buffer to minimize ball impact vibration that can damage delicate circuitry common to PC Boards.

ZOT Wizard Extreme

For AMF Subway Ball Returns



Low Voltage

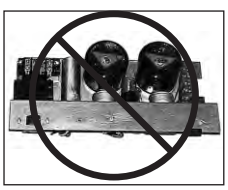
Centers with no 115V power supply available at the approach area should order the ZOT Wizard Plus Foul Detector and Covers package (see below).

Wire Harness

#400302 .....$47.67

Note:
If your pinspotter requires 120 VAC to sweep the pins after a foul (e.g., AMF 82-30 Pinspotters), contact ZOT for a conversion box **(#400100** $205.49**)**

Kit Requires: A standard 115 Volt duplex outlet to plug the transformer into for supplying power to the Foul Unit.(e.g. on the curtain wall).



Wizard Extreme - Spare Parts:

Description Part Number

Spare Parts Kit	#400292
PC Board	#431097
Sensor Block Assembly	#431099
Reflector Only	#800157
Reflector Assembly	#400169
Foul Signal LED, Including Holder and Harness	#440145
Scoring Harness (Bswk)	#440155
Scoring Harness (AMF)	#440153
Buzzer Assembly	#400170
Transformer Assembly (115V60Hz)	#400281
Transformer Assembly (220V50Hz)	#400293
Sensor harness (3-wire)	#440146

Note:
AMF Centers requiring Foul Indication at the Foul Line should add Foul Signal LED Holder and Harness

#440145 .....$45.95

Call ZOT for pricing

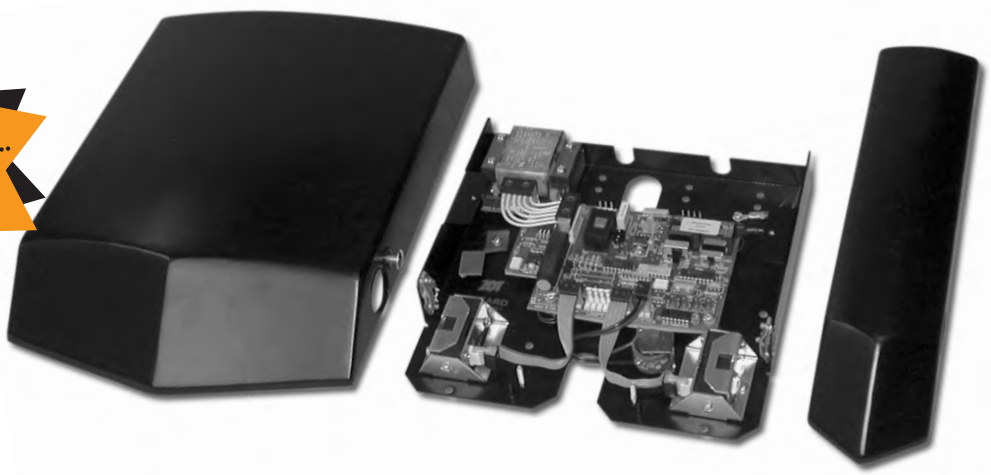
Wizard Foul Detector and Cover's Package

#400167 .....**$454.50**

Package includes: ZOT's Wizard 'Plus' Foul Detector & One Wide and One Narrow Black Metal Cover

"Replacing Foul Detectors improves the Bowler's Experience... Replacing Foul Detector Covers Improves the Image of your Center"

Feature for feature... Dollar for dollar... the best deal in the market



The ZOT's Wizard 'Plus' Foul Detector is universally recognized as the most reliable product in the industry . No other brand can match the features in the ZOT product

For individual product information, including features and benefits, See page 21.

Call ZOT at 1-800-525-8116 for more details

Features and Benefits:

Infrared Technology: ZOT Wizard Foul Units feature infrared sensors that are solid state and rated for millions of hours of dependable service. Infrared sensors replacing troublesome incandescent bulbs.

Self Diagnostics: ZOT's microprocessor automatically checks the sensors every time there is a foul. If any Wizard Foul Unit detects a problem it will automatically turn itself off . . . one lane at a time.

Alignment Indicators: A 4-unit LED system indicates signal strength. This aids the installer and/or mechanic in the alignment of the sensors.

All Modular Design: All the individual components simply plug onto the PC Board, making troubleshooting and the replacement of parts simple.

Vibration Protection: The PC Board is mounted on a shock-absorbing buffer to minimize ball impact vibration that can damage delicate circuitry common to PC Boards.

Marginal Signal Alert: ZOT Wizard Foul Units will alert the mechanic to pending problems. Four different sequences of buzzer signals can occur if the unit has a failure allowing the mechanic to troubleshoot.

Microprocessor Efficient: All ZOT Wizard Foul Units have State-of-the-Art Microprocessor technology. This simplifies the circuitry, making all Wizard Units more cost effective and reliable.

Automatic Scoring Compatible: ZOT Wizard Foul Units transmit the proper signal needed to communicate with automatic scoring systems. Changing the signal is as easy as: either flipping a switch or moving jumpers to a different set of pins.

No need for an Electrician to Install: The ZOT Wizard (Surface) comes with a Transformer and Low Voltage supply cable allowing a Mechanic to complete the installation with no added help.

Light Source Recognition: ZOT's infrared design features a special operational frequency for its emitter and receiver communications. Matching this frequency eliminates an affect from alternate light sources: e.g. overhead lighting, and cosmic/glow lighting.

Wizard Extreme - Spare Parts:

Description Part Number

Spare Parts Kit	#400292
PC Board	#431097
Sensor Block Assembly	#431099
Reflector Only	#800057
Reflector Assembly	#400169
Foul Signal LED, Including Holder and Harness	#440145
Scoring Harness (Bswk)	#440155
Scoring Harness (AMF)	#440153
Buzzer Assembly	#400170
Transformer Assembly (115V60Hz)	#400281
Transformer Assembly (220V50Hz)	#400293
Sensor harness (3-wire)	#440146

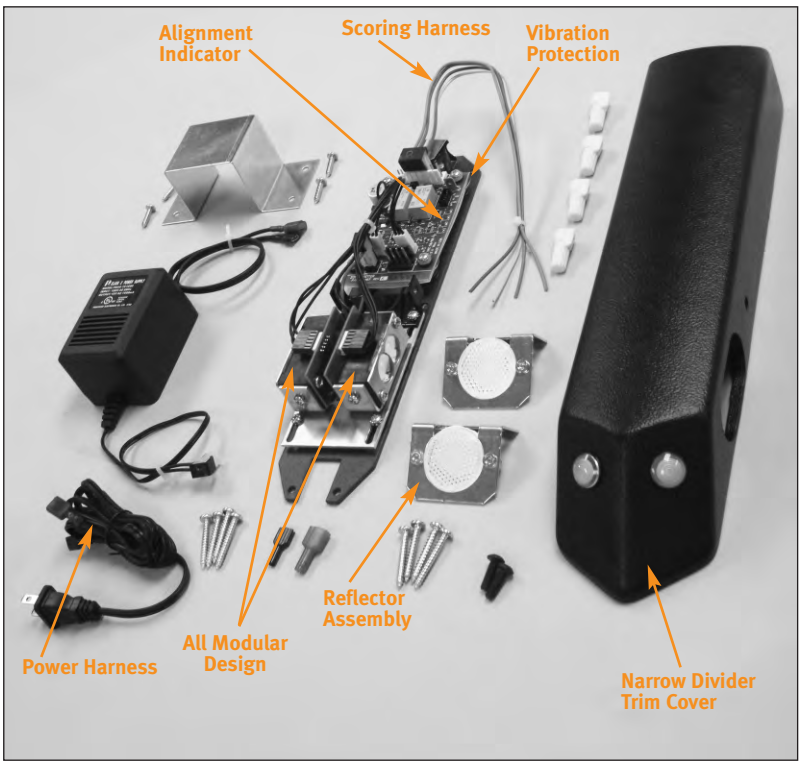
Call ZOT for pricing

Wizard Extreme (Surface)

Replaces AMF 82-08 Radaray & For AMF Surface Ball Retur ns

#400301 (Serving Two Lanes).....**$399.50**

Kit Includes: Detector Assembly, Narrow Metal Detector Cover (Silver), Transformer, Power Supply Cable, Scoring Communication Cable, 2 Reflector Assemblies and All Mounting Hardware to install complete kit.



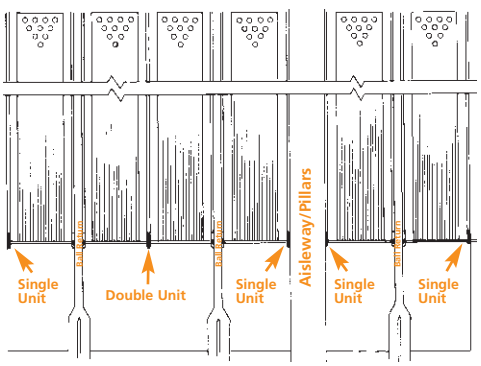
Low Voltage

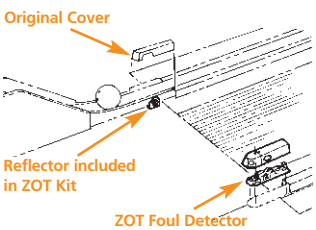
Centers with no 115V power supply available at the approach area should also order the following wire harness.

Wire Harness

#400302 .....**$47.67**

Kit Requires: A standard 115 Volt duplex outlet to plug the transformer into for supplying power to the Foul Unit. e.g. curtain wall.





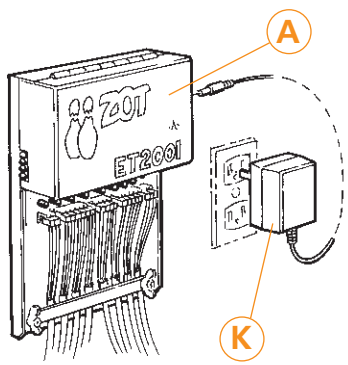
Spare Parts

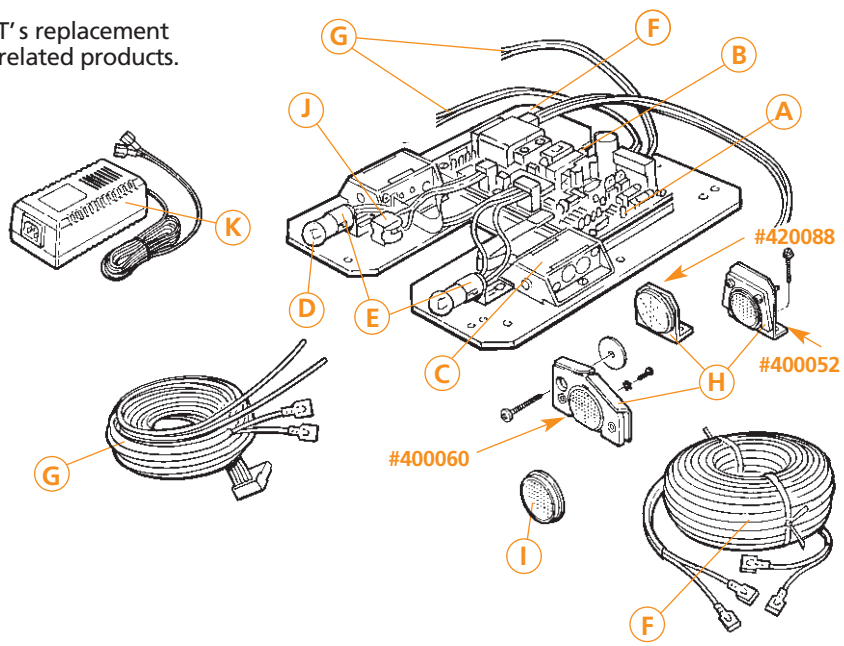
ZOT's Foul Detector, Scoring and Electronic Triggering related products are Unique in the industry because they are modular by design, enabling the mechanic to replace the various components — right there in the bowling center .

Wizard and Conversion (Spare Components)

Item	NEW Kit Number	Kit Description	A P.C. Board	B Fuse	C Sensor Assembly	D Lamps	E Socket Assembly	F Lamp Power Harness	G Scoring Harness	H Reflector Assembly	I Reflector Only	J Buzzer	K Trans-former
1 A	400143	Wizard Plus	431043	400110*	431015	N/A	N/A	440051	440049	400052	800057	400111	431040
B	*	Wizard Double	431034	400110*	431015	N/A	N/A	440051	440039	420088	800018	400111	N/A
2 A	400119	Low Voltage Wizard	431035	N/A	431015 (10 ea.)	400094	440020	440043	440041 (75 ft.)	400060	800018 (1RH & 1LH)	400111	400065
3	400015	Wizard Surface	431025	N/A	431027 (10 ea.)	400094	440020	440043	440041 (75 ft.)	400060	800018 (1RH & 1LH)	400111	400065
4	400074	Radaray P.C. Board Upgrade	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5	400076	Radaray Infrared Head – Add On	N/A	N/A	431019	N/A	N/A	N/A	N/A	400060	800018 (1RH & 1LH)	N/A	N/A

In the Chart above you will find details of ZOT's replacement Spare Parts for Foul Detector and Triggering related products.
*Fuse = (6 each) package





Call ZOT for Pricing

Electronic Triggering (Spare Components)

Item	NEW Kit Number	Kit Description	P.C. Board	Fuse	Sensor Blue	Sensor Gray	Power Harness	Flat Gray Cable	Coaxial Cable	Trans-former	Sensor Shims	Sensor Lens Kit
6A	400072	ET 2000 Two-Lane Electronic Triggering (115V)	432052	N/A	400001	400133	N/A	450005	N/A	290005	400121 (25 ea.)	400032
B	*	ET 2000 Two-Lane Electronic Triggering (230V)	432052	N/A	400001	400133	N/A	450005	N/A	290006	400121 (25 ea.)	400032
7A	400135	ET 2001 Two-Lane Electronic Triggering (115V)	432052	N/A	400001	400133	N/A	450005	N/A	290005	400121 (25 ea.)	400032
B	400034	ET 2001 Two-Lane Electronic Triggering (230V)	432052	N/A	400001	400133	N/A	450005	N/A	290006	400121 (25 ea.)	400032
8	*	Mini Magic – AMF	400009	400083 (6 ea)	400001	400005	440014	450001	450002	N/A	400121 (25 ea.)	400032

Note: Wizard & ET 2000/ET 2001 Spare Parts Kits
A Plus: 400143 – Order: 400137
B Double: 60200-0 / 60400-0 / 60600-0 – Order 400112
C Low Voltage: 400119 – Order 400114
D Surface: 400015 – Order 400113
E ET 2000: 48050-0 – Order 400138
F ET 2001: 400135 – Order 400138

Product Discontinued

P.C. Board Exchange

ZOT offers its customers a Factory Direct Exchange program for repairs to P.C. Boards after the W arranty has expired. If you have a P.C. Board that needs repairing simply call ZOT' s Customer Service Department at 1-800-525-8116.

Call ZOT at 1-800-525-8116 for more details

Triggering Improvements that Promote Bowling

ET 2001 "Dual Lane" Ball Detector

#400135 (115V/60Hz).....**$313.50** **#400034** (230V/50Hz).....**$321.50**

ZOT's ET 2001 "Dual Lane Electronic Triggering, for AMF Pinspotters features: an adjustable time-delay from 3/4 of a second to 8 seconds and the most advanced infrared technology available in the industry, to guarantee 100% positive triggering . . . ball after ball after ball . . . you know it makes sense.

It only takes a few seconds a game to save thousands of dollars a year in lost linage, revenues, power consumption, and machine wear and tear – and to improve customer satisfaction levels.

At bowling centers everywhere, you see youngsters, seniors, and bowlers using light balls – especially in centers with bumper bowling – frustrated, and wasting time, either because they're slow to react in pressing the reset button, or because they don't know what to do, when the machine fails to cycle.

That same few seconds will pay for ZOT's ET 2001 "Dual Lane" Electronic Triggering system several times over in its first year, and, thereafter, the additional revenues, savings and improved customer relations, translate into clear, and measurable, increased profits.

Note:
The ET 2001 has two adjustable time delay outputs, each of which serve two lanes.

Features and Benefits

100% Positive Triggering: Regardless of the weight or speed of the ball.

Reduces Maintenance: Mechanical linkage does not affect trigger sensitivity.

World Class P.C. Design: ZOT's new Micro-Processor technology simplifies the circuit, making the ET 2001 (Electronic Triggering) Dual Lane Ball Detector surprisingly cost efficient.

Superior Sensor Design: The ET 2001 retains the same sensor design as ZOT's single lane Magic Eye. With more than a decade in the marketplace, this miniature and ruggedly constructed sensor system has a proven track record of minimizing damage by balls and pins; and it's not sensitive to vibration.

Infrared Technology: The ET 2001 features an Infrared Sensor source that's Solid State Diode Rated for millions of hours of dependable service.

Alignment Indicator: ZOT's ET 2001 features an exclusive 4-unit LED system, that indicates when the sensors signal is strongest. The LED's can be viewed from either the sensor area, or from the top of the pinspotter, without opening the cover.

Diagnostic Indicator Safety System: ZOT has added an LED system which indicates when an output signal is occurring.The ET 2001 has a built-in Safety System which prevents the machine from cycling if a person is in the area where the sensors are mounted.

Speeds Up League Play: No more pushing the reset button.

Profit on Machinery Improvement: Over 200% return on investment the first year.

(continued on next page)

Features and Benefits:
(continued)

Remote Trigger Ports: ZOT's ET 2001 can be triggered by external sources, e.g., scoring system remote switch.

Control Box Protection: ZOT's Dual Lane Control Box mounts on the back of the masking unit curtain wall; out of the way of potential damage by balls or pins.

Flip Top Cover: The Control Box Cover hinges from the top, which means no screwdriver is needed to view the P.C. Board. Simply flip the cover up for inspection, and down again when finished.

Simple Installation: ZOT's ET 2001 installs in three easy steps:

1. Wall transformer plugs into 115 Volt outlet for power supply.
2. Two conductor outputs for each pinspotter simply quick-splice to the bowlers reset button wires. The AMF trigger switch can either be retained…or dismantled.
3. The Infrared Emitter and Receiver are simply plugged in, leveled and secured at each lane.

All Modular Design: All components plug into the P.C. Board separately, making it possible and easy to change parts, and troubleshoot.

Rake/Sweep Path Sensor Mounting: The Sensors can be mounted behind the Sweep (in the Sweep path), with addition of option #400216. See upper right.

ET 2000 & ET 2001 Spare Parts 115V & 230V:

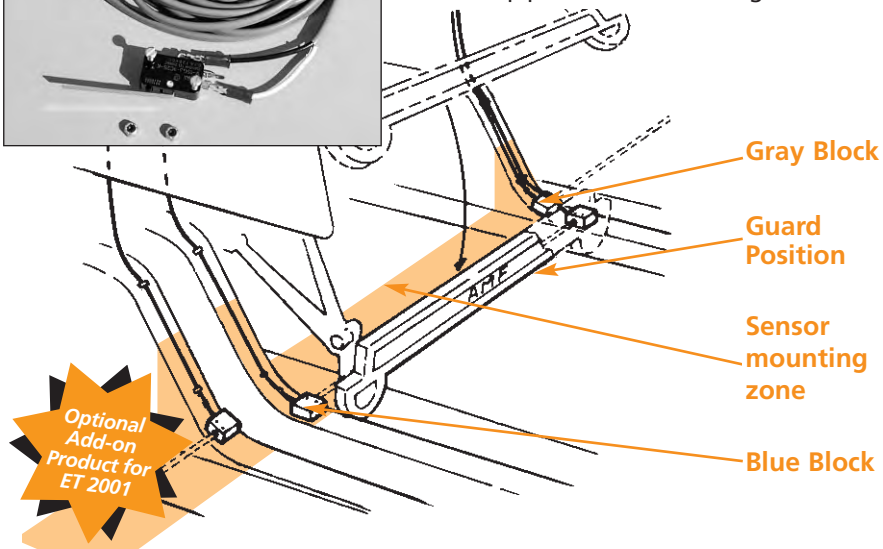
Description	Part Number
Spare Parts Kit	#400138
PC Board	#432052
Blue Emitter Block	#400001
Flat Gray Emitter Block	#450005
Gray Receiver Block	#400133
Transformer for 115V	#290005
Transformer for 220V	#290006
Sensor Shims	#400121
Sensor Lens Kit	#400032

Call ZOT for pricing

Sweep Lock-Out
(Micro-Switch and harness)

#400216 .....**$21.55**

ZOT's Sweep Lock-out resolves intermittent multiple cycling (e.g., Sweep Reversal), which can occur when the sensors are mounted in the sweep path sensor mounting zone.



ET 2001 Add-on Scoring Option

For Centers with AMF Pinspotters and Brunswick Scoring

If you're dissatisfied with your present AS80 and AS90 Series Ball Detect System, the ZOT ET 2001's ability to double as an improvement to your automatic scoring system makes it the most cost effective ball detect system available.

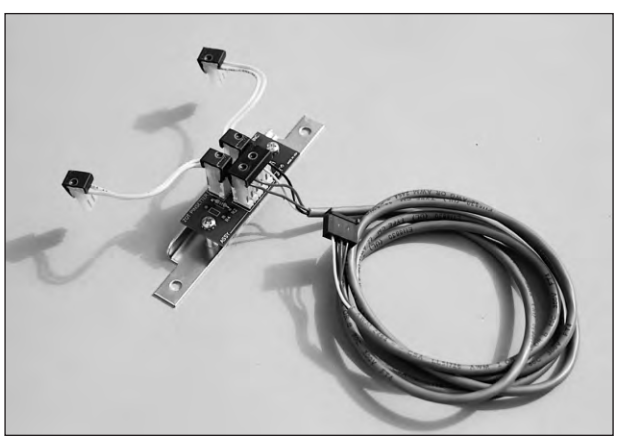
Optional Add-on Product for ET 2001

The following are the wire harness options necessary to activate the automatic scoring ball detect feature:

#400159 for Brunswick AS 79 Scanner **$64.50**

#440080 for Brunswick AS 86 Scanner **$52.80**

#400194 for Brunswick AS 90 Camera & FrameWorx **$64.50**



Note:
The above wire harness options are only compatible to ZOT ET 2001.

ZOT Unit Replaces 79 Scanner Ball Detect

ZOT Unit Replaces two Brunswick #57-214904-000

ZOT PermaDeck Back-End Lane Products

ZOT Pinsetter Parts is pleased to introduce a new line of back end lane products including flat gutters, kickback plates, edge boards and tail plank tops. All of these products are made from industrially engineered HDPE (High Density Polyethylene) As the name would imply, HDPE is durable, requires no maintenance, and it never needs recoating with finish. To maintain quality and durability none of ZOT's HDPE products use recycled materials. ZOT's back end lane products are also ABC approved.

- **ZOT's Kick Back Plates are undrilled enabling the installer to drill holes and screw the kick back plates into kick back surfaces where there are no old or enlarged holes, ensuring a secure installation**

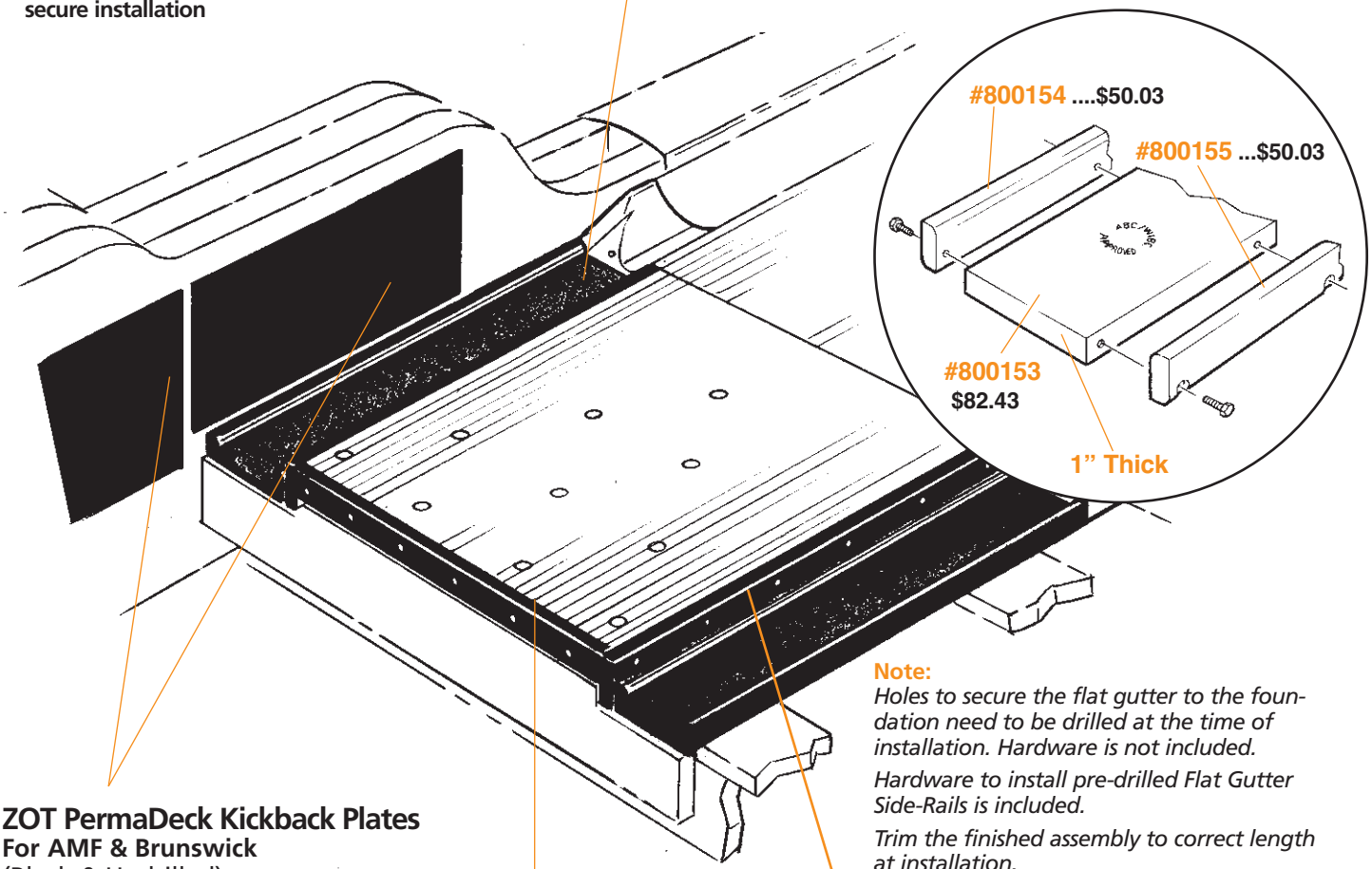
Heavy Duty PermaDeck Flat Gutter Kit

For AMF & Brunswick

#420479 (for one lane).....**$218.50**

Check out these features:

- Costs less than comparable products.
- Virtually maintenance free and durable.
- Made of 1" thick "Warp Resistant" HDPE for maximum strength and life. **Note:** less expensive brands use 3/4" plastic which tends to warp and has a much shorter lifespan.
- **Easy to install:** either by the center mechanic or a lane resurfacer.



Note:
Holes to secure the flat gutter to the foundation need to be drilled at the time of installation. Hardware is not included.

Hardware to install pre-drilled Flat Gutter Side-Rails is included.

Trim the finished assembly to correct length at installation.

ZOT PermaDeck Kickback Plates

For AMF & Brunswick
(Black & Undrilled)

#420482 .....**$43.60**
15" x 33" fits all AMF and early model Brunswick

#420483 .....**$41.45**
19" x 23 3/4" for early model Brunswick

#420484 .....**$50.85**
16" x 40" for late Brunswick

Check out these features:

- Highly durable.
- Restore your kickbacks to ABC Specifications.
- Improves scorability and reduces pin damage.
- Easy to install.

ZOT PermaDeck Tail Plank Tops

Fits AMF & Brunswick Wood Pindecks

#420481 .....**$44.95**
1 3/4" x 1 1/2" x 43" (per lane)

#420511 .....**$41.90**
Fits Brunswick & Synthetic/HPL Pindecks
1/2" x 2 3/8" x 41 7/8"

Check out these features:

- Restores your tailplanks to ABC Specifications.
- Improves scorability.
- Extend the life of your pins.

Call for quotation for sizes not listed.

ZOT PermaDeck Edge Boards

Fits AMF & Brunswick Wood Pindecks

#420480 .....**$41.90**
1" x 2 1/2" x 46" (each)

#420510 .....**$41.90**
Fits Brunswick & Synthetic/HPL Pindecks
1/2" x 2 3/8" x 47 5/8"

Check out these features:

- Restores your wooden pindecks to ABC Specifications.
- Helps improve scorability.
- Extends the life of your pins.

Call for quotation for sizes not listed.

ZOT GlowRod Fascia and Quarter Round Trim for Approaches

ZOT's GlowRod Fascia and Quarter Round Trim products are designed to improve the appearance and highlight the riser or step from the bowlers settee area to the approach. The GlowRod Fascia and Quarter Round Trim (shown in the illustration below) clearly highlights the riser in either a Glow or Non-Glow Bowling environment which, in addition to enhancing the image of your center, brings safety to the equation too — especially during Glow-Bowling activities.

GlowRod Fascia & Quarter Round Trim

Check these features:

Improved Safety: The GlowRod Fascia illuminates in an Ultra Violet (Glow Bowling) lighting environment, clearly highlighting the riser or step-up to the approach. The UV additive in the rod will Glow under Ultra Violet Light with no additional power necessary.

Durable: Made of virtually indestructible industrially engineered HDPE (High Density Polyethylene) that will outlive the life of your approaches.

Maintenance Free: ZOT's GlowRod Fascia and Quarter Round Trim never needs painting, and will look good for 10-15 years without cracking or splitting.

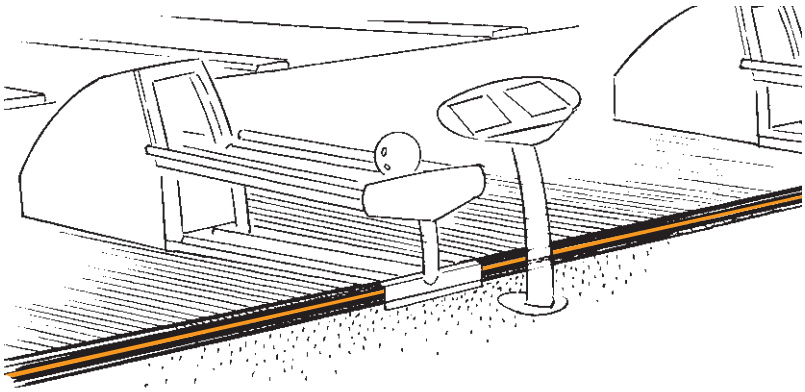
Cost Effective: Costs about the same as replacing the original, and less durable, worn and damaged maple fascia.

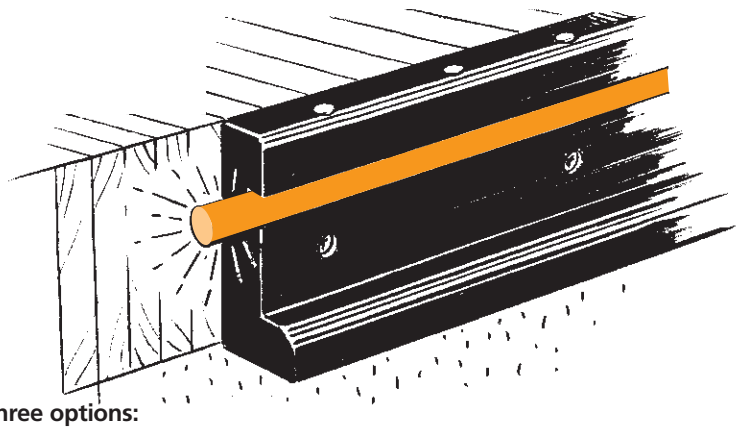
Note: *ZOT's GlowRod is sold by the foot and separately from the Fascia. See below for color selection and part numbers, etc.*

How it all works: You start by measuring the height of the riser (step) from the settee area to the the approach, and then the length of the fascia needed to extend across the width of the approaches.

Note: *Fascia and Quarter Round Trim (with or without GlowRod) is a custom product that's "Made-to-Order".*

Once you have the specifications and place an order with ZOT it will take a few weeks to process (custom build) and ship the finished product.





Here are three options:

Option 1
ZOT's HDPE Fascia and Quarter Round Trim is designed to be used as a replacement for the original wood fascia.

Option 2
HDPE Fascia and Quarter Round Trim is also available with a groove to accommodate the installation of a Glow Rod, which is an optional add-on.

Option 3
Glow Dowels can also be added to either Option 1 or 2.

Part #	Description	*Price Per Foot
	Fascia With & Without Quarter Round Trim (Order Glow Rod and Glow Dowels Separately)	
800137	1" NO/Quarter Round Trim –NO GLOW	$2.83
800138	1.5" NO/Quarter Round Trim – NO GLOW	3.95
800139	2" W/ Quarter Round Trim	7.94
800140	2.5" W/ Quarter Round Trim	9.17
800141	3" W/ Quarter Round Trim	10.06
800142	3.5" W/ Quarter Round Trim	11.28
800143	4" W/ Quarter Round Trim	12.43
800144	4.5" W/ Quarter Round Trim	14.45
800145	5" W/ Quarter Round Trim	14.88
800146	5.5" W/ Quarter Round Trim	16.01
800147	6" W/ Quarter Round Trim	17.39
800148	6.5" W/ Quarter Round Trim	18.76
800149	7" W/ Quarter Round Trim	20.07
800150	7.5" W/ Quarter Round Trim	21.43

Part #	Description	*Price Per Foot
	Quarter Round Trim, GlowRod & Glow Dowels	
800151	Quarter Round Trim	2.99
	GLOW ROD for installing in Fascia (add to per foot price of fascia)	
420494	Glow Rod — Green	11.59
420495	Glow Rod — Red	11.59
420496	Glow Rod — Orange	11.59
	GLOW DOWELS for installing in Fascia	
420501	Glow Dowels — Four Dowels per foot	14.90

*** Products priced by the foot must be purchased in five (5) foot lengths**

- Glow Dowels are factory installed in the Fascia
- All orders for Fascia include Mounting Screws Fascia, Quarter Round Trim and GlowRod are shipped in 5-foot lengths and can therefore be shipped by UPS

ZOT "GlossBoss" Coin-Op Ball Conditioner

#420397 .....**$8988.00**

Features and Benefits

Customer Friendly Display: The customer display screen shows price, money's deposited, cycle-time and cycle-time remaining, plus house-ball and Sold-out modes.

Four Easy-to-Program Price Levels: A simple two-button operation. Hold down one button and pulse the other until the illuminated LCD's on the Display panel show the desired Price levels This feature enables you to periodically increase the price as and when desired.

Four Easy-to-Program Run Times: A simple two-button operation. Enables you to adjust the run times to maximize revenues and the number of users.

Electronic Coin Validator: Programmable for promotional tokens and single coins of any denomination (e.g. Quarters or Dollar Coins in the US) and most currencies, subject to size (maximum 34mm diameter and 3.4mm thick).

Bill Acceptor: ZOT's internally mounted Bill Acceptor will typically increase machine usage anywhere from 15 – 30 percent. A ZOT Bill Acceptor also reduces the frequency in making change for customers, and makes cashing out the machine easier.

Mechanical Compound Advance System: A time tested proven system makes it easy to maintain a high quality polish without the constant need for adjustment and readjustment.

Easy-Adjust Buffer Shaft: Enables you to easily set the buffing wheel adjustment correctly and guarantee the Ball Conditioner "Really Polishes Bowling Balls", ball after ball after ball. Simply loosen six bolts and rotate a calibrated jackscrew each time the compound block is replaced.

Double-ended Bearing Support on Buffing Wheel: Makes wheel replacement easy and yields a smooth running operation without the tricky balancing exercise required with older machines.

Scrolling Message and Advertising Display: This easy to program multi-color digital display enables centers to develop their own promotional and advertising messages to their customers.

Buffer Pressure Meter: Takes the guesswork out of measuring the pressure between the buffing wheel and surface of bowling ball for optimal ball polishing performance.

GlossBoss Buffing Compound

#420416 (two blocks per box).....$137.30

- Same formula that major bowling ball manufacturers use to factory finish new bowling balls
- Designed and formulated to give a superior polish to all bowling ball compositions including: Urethane, Reactive, Particle, Plastic and Rubber.
- Date stamped for shelf-life verification

Buffing Wheel

#820017.....$118.20

- Longest lasting buffing wheel in the industry.
- Superior compound transfer to buffing wheel and ball.
- Non-corrosive black powder coated steel hub.

Note:
Always check the condition of the spacers when replacing the buffer wheel.

Lustre King Spacer Kit #420374.....$53.45
Lustre Kleen Spacer Kit #420374.....$53.45

The ZOT GlossBoss II

#420398 .....**$6988.00**

If you have a small center, or a center with a minimal number of league bowlers (e.g. 350 or fewer) or are simply just not ready to invest in a machine that includes all the bells and whistles, ZOT's new GlossBoss II may be just the answer.

The GlossBoss II is identical to the GlossBoss except the Scrolling Message Display has been replaced with a Static Sign, and it does not include an Electronic Coin Validator, relying instead on just the Bill Acceptor. The GlossBoss II retains the same high polishing performance as the original machine – and all for a price tag that is more than 20-percent less than a GlossBoss.

ZOT Ball Conditioner Restoration and Conversion Kits

If you're not quite ready for a GlossBoss or GlossBoss II but have an old ball conditioner that's not functioning, ZOT manufactures restoration and conversion kits that are compatible to most brands' ball-conditioners.

For more details call 1-800-525-8116 or visit www.zotpinstter.com.

VISIT OUR WEBSITE

www.zotpinsetter.com

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